

Power Inductors

POWER
Inductors



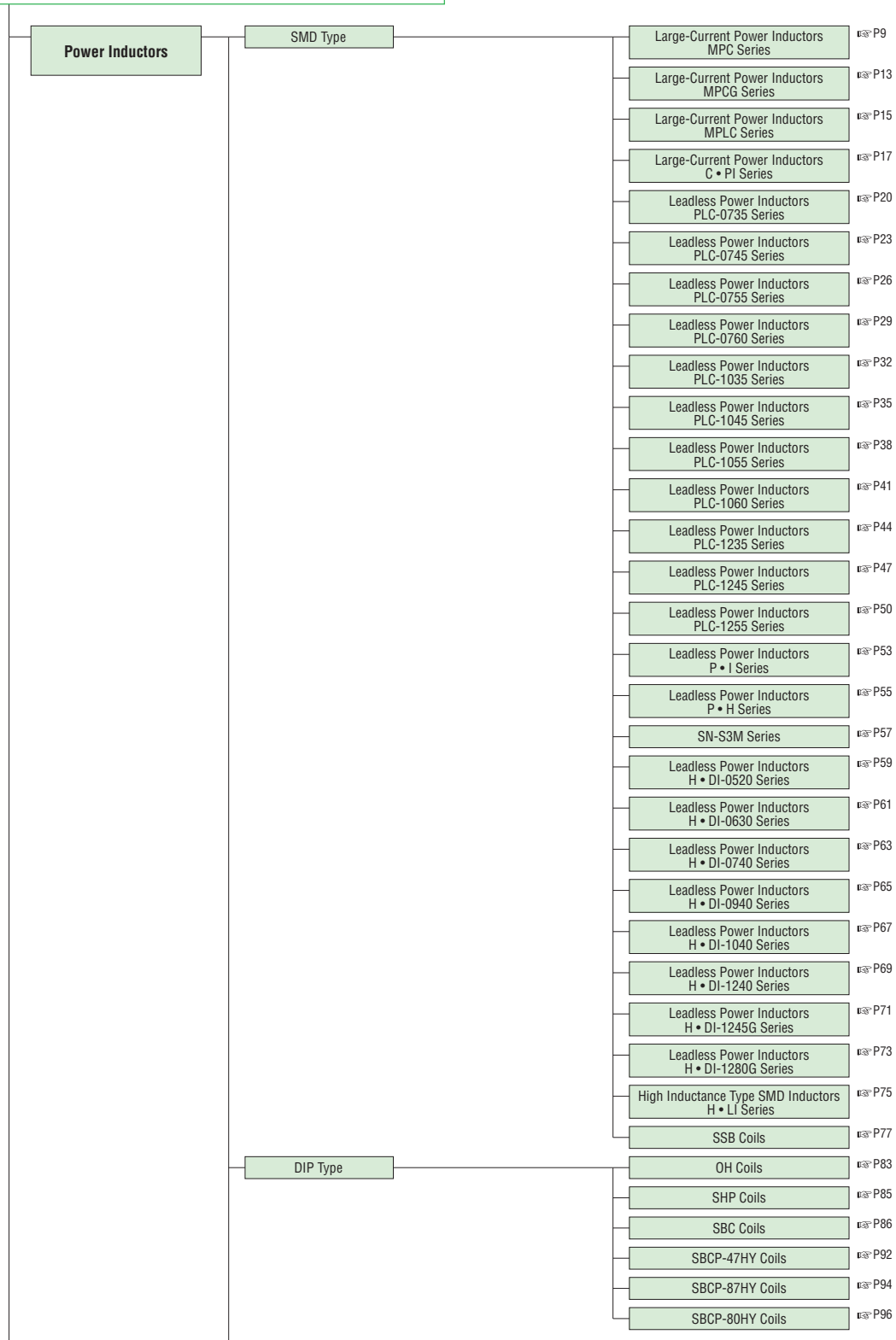
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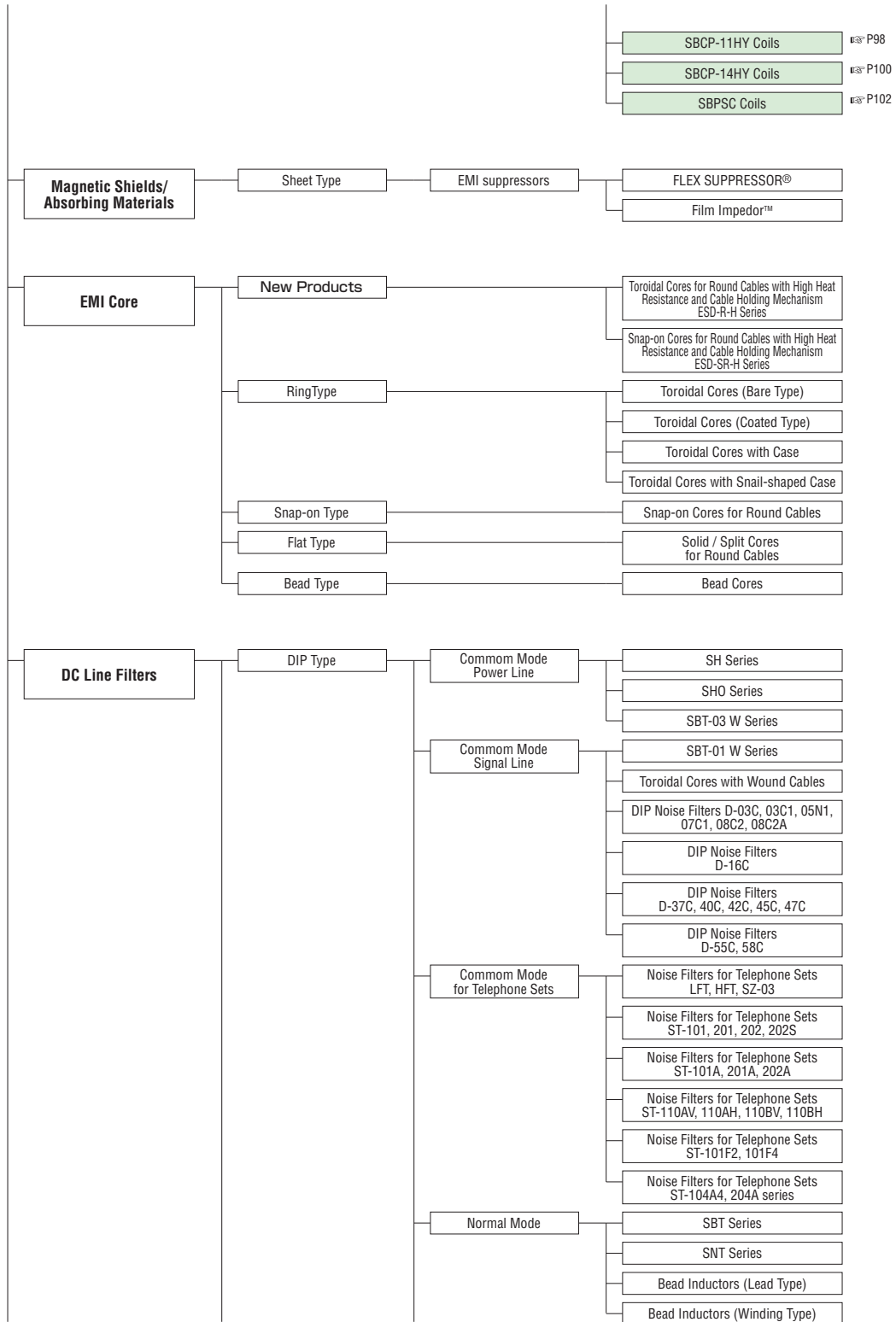
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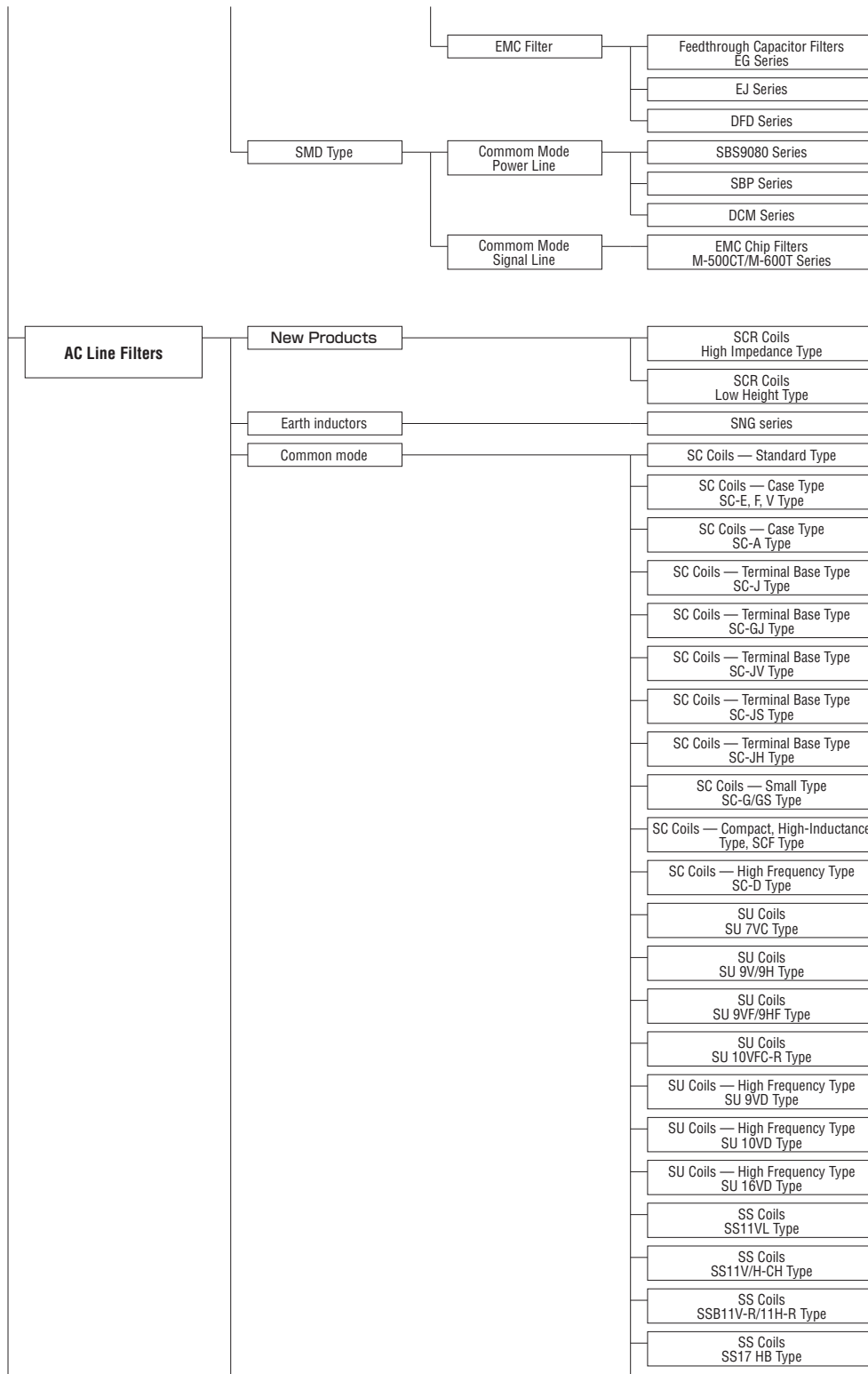
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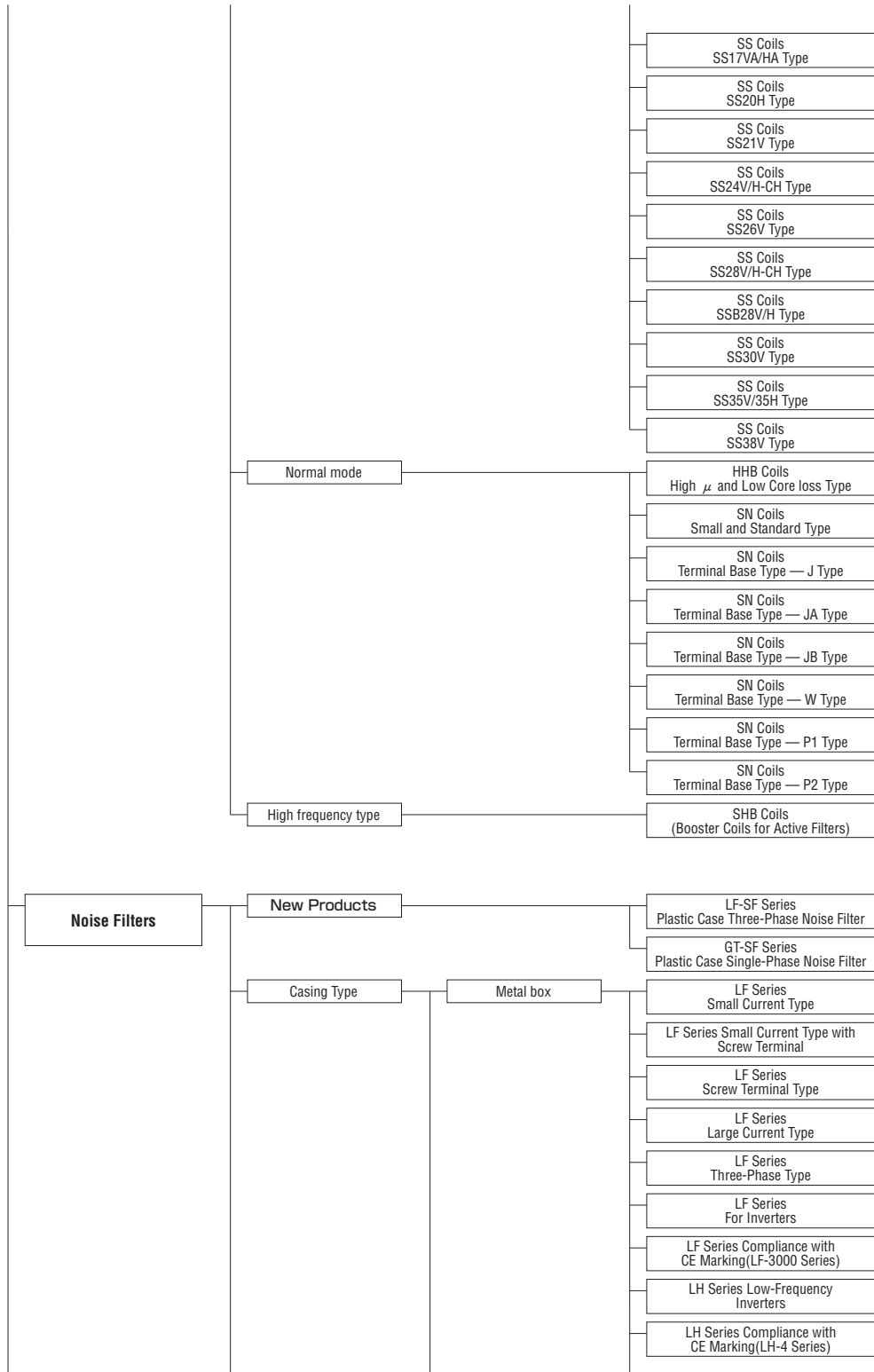
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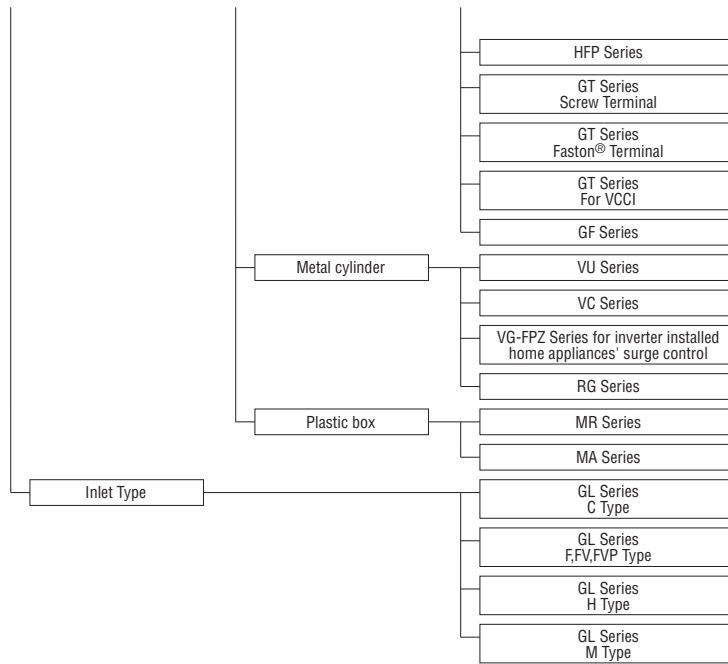
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SMD Type Inductors

| Series name | Dimensions (mm) | Inductance (μH) | Rated current (A) | Major features and applications | Page |
|-------------------|------------------------------------------------------|----------------------------------------------|--------------------------------------|------------------------------------------------------------------------|------|
| MPC Series | 8×6.7×4~5 11.5×10×4 11.7×10×5.5 14.5×12.5×5 | 0.42~0.6 0.36~0.88 0.36, 1 0.36~0.5 | 17~22 17~25.5 18.5~32 35~38 | HighSpeed/large current DC/DC Converter | 9 |
| MPCG Series | 8×6.7×4 11.5×10×4 | 0.42 0.36~0.45 | 22 25 | HighSpeed/large current DC/DC Converter | 13 |
| MPLC Series | 7.7×6.7×3 11.5×10×4 | 1~4.7 1~4.7 | 5~10.6 8~14.3 | Large-Current Inductors | 15 |
| C·PI Series | 13.5×14×5.5~6.5 12.5×13.3×5 10×10.4×5 | 0.7~2.7 0.55 0.55~2.7 | 13~26 25 9~19 | DC/DC converters for notebook PCs | 17 |
| P·I-LM Series | 12.7×10.2×6 | 8.2~220 | 0.5~2.3 | Compact size, high reliability, smoothing inductors for automobiles | 53 |
| P·I-LS Series | 9.5×7×5 | 3.3~47 | 0.7~2 | | 53 |
| P·I-ZM Series | 12.7×10.2×6 | 2.7~330 | 0.5~2.9 | Compact size, high reliability, noise suppression for automobiles | 53 |
| P·I-ZS Series | 9.5×7×5 | 1.2~8.2 | 0.6~3 | | 53 |
| P·H-LM Series | 12.7×10.2×6 | 82~150 | 0.7~1.2 | Compact size, high reliability, smoothing inductors for automobiles | 55 |
| SN-S3M Series | 10×7×4.7 | 0.8~23 | 0.5~2 | Compact size, noise suppression | 57 |
| PLC 0735 Series | 7.5×8×3.5 | 2~33 | 1.6~5 | Magnetic shielded type, DC/DC converters | 20 |
| PLC 0745 Series | 7.5×8×4.5 | 2~33 | 1.7~5.1 | | 23 |
| PLC 0755 Series | 7.5×8×5.5 | 2~33 | 1.9~6.4 | | 26 |
| PLC 0760 Series | 7.5×8×6 | 2~33 | 1.9~6.5 | | 29 |
| PLC 1035 Series | 10.2×10.7×3.5 | 2~33 | 1.5~6 | | 32 |
| PLC 1045 Series | 10.2×10.7×4.5 | 2~33 | 2.2~6.9 | | 35 |
| PLC 1055 Series | 10.2×10.7×5.5 | 2~33 | 2.7~8.2 | | 38 |
| PLC 1060 Series | 10.2×10.7×6 | 2~33 | 2.3~6.7 | | 41 |
| PLC 1235 Series | 12.5×13×3.5 | 2~33 | 1.8~6.7 | | 44 |
| PLC 1245 Series | 12.5×13×4.5 | 2~33 | 2.9~7.4 | | 47 |
| PLC 1255 Series | 12.5×13×5.5 | 2~33 | 3.4~7.8 | | 50 |
| H·DI-0520 Series | 5×5×1.8 | 1.2~100 | 0.2~3.4 | Magnetic shielded type, DC/DC converters | 59 |
| H·DI-0630 Series | 6×5.9×2.8 | 1.3~100 | 0.45~2.7 | | 61 |
| H·DI-0740 Series | 7.1×7.1×3.8 | 1.2~100 | 0.5~4.5 | | 63 |
| H·DI-0940 Series | 9.5×9.5×4 | 6.8~1000 | 0.28~3.4 | | 65 |
| H·DI-1040 Series | 10.2×10.2×3.8 | 1.5~100 | 1.3~7.3 | | 67 |
| H·DI-1240 Series | 12.5×12.5×4 | 2.2~1000 | 0.35~5.1 | | 69 |
| H·DI-1245G Series | 12.5×12.5×4.5 | 10~220 | 0.85~4.5 | | 71 |
| H·DI-1280G Series | 12.5×12.5×8 | 1.7~220 | 1.3~8.5 | | 73 |
| H·LI-0505 Series | 5.7×5.7×5.3 | 2~5mH | 40~100mA | Magnetic shielded type, compact and high inductance | 75 |
| SSB15 Series | 11.6×14×8.5 | 1~1000 | 0.29~10 | Standard type, non-shielded type | 77 |
| SSB14 Series | 11.6×14×7 | 1~1000 | 0.23~7 | | 77 |
| SSB84 Series | 8.3×10×6 | 1~1000 | 0.18~2.3 | | 78 |
| SSB64 Series | 6.3×8×6 | 1~1000 | 0.14~1.7 | | 78 |
| SSB44 Series | 4.8×6.5×5.5 | 1~680 | 0.1~1.9 | | 78 |



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Large-Current Power Inductors MPC Series

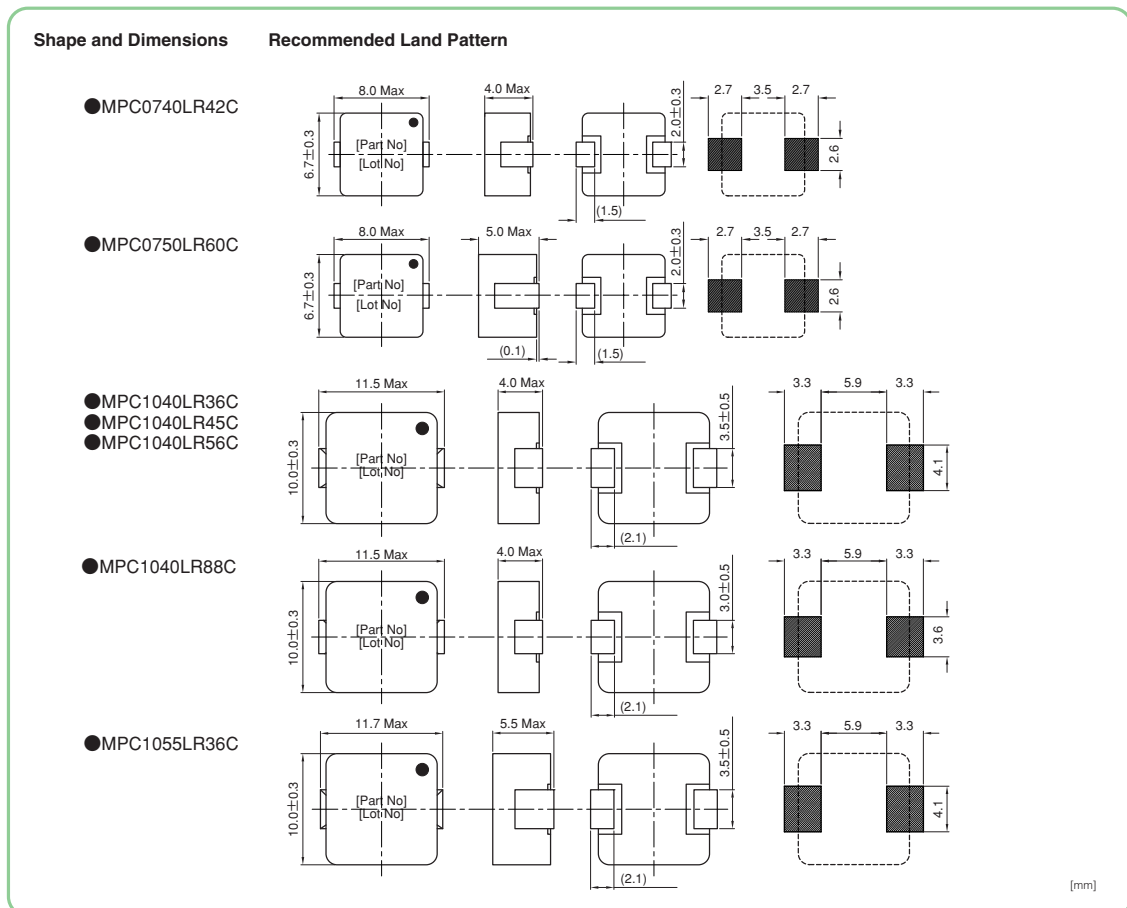
[RoHS Compliant]



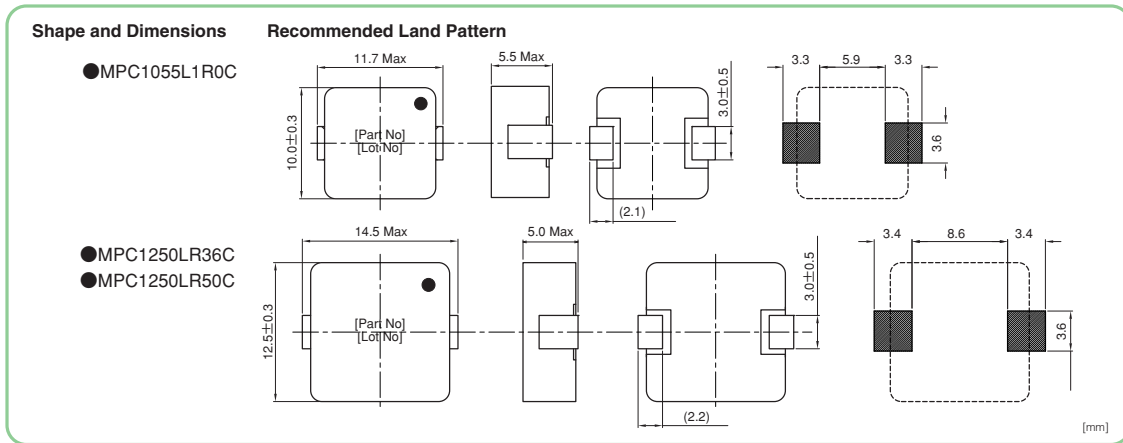
• Precautions (see page 82)

| Model | Inductance (μ H) at 100kHz | DC resistance (m Ω) typ. | Rated current (A) | |
|---------------|---------------------------------------|-------------------------------------|-------------------------------|-------------------------------|
| | | | I _{rms} *1 (Ref.) | I _{sat} *2 (Ref.) |
| MPC0740LR42C | 0.42 \pm 20% | 1.55 \pm 10% | 22.0 | 20.0 |
| MPC0750LR60C | 0.60 \pm 20% | 2.30 \pm 10% | 17.0 | 19.0 |
| MPC1040LR36C | 0.36 \pm 20% | 1.05 \pm 10% | 25.5 | 30.0 |
| MPC1040LR45C | 0.45 \pm 20% | 1.10 \pm 10% | 25.0 | 27.0 |
| MPC1040LR56C | 0.56 \pm 20% | 1.30 \pm 10% | 23.0 | 25.0 |
| MPC1040LR88C | 0.88 \pm 20% | 2.30 \pm 10% | 17.0 | 24.0 |
| MPC1055LR36C | 0.36 \pm 20% | 0.75 \pm 10% | 32.0 | 35.0 |
| MPC1055LR1R0C | 1.00 \pm 20% | 2.30 \pm 10% | 18.5 | 21.0 |
| MPC1250LR36C | 0.36 \pm 20% | 0.65 \pm 10% | 38.0 | 40.0 |
| MPC1250LR50C | 0.50 \pm 20% | 0.80 \pm 10% | 35.0 | 40.0 |

*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
 ● Operating temperature range: -20~+120°C (Include self temperature rise)



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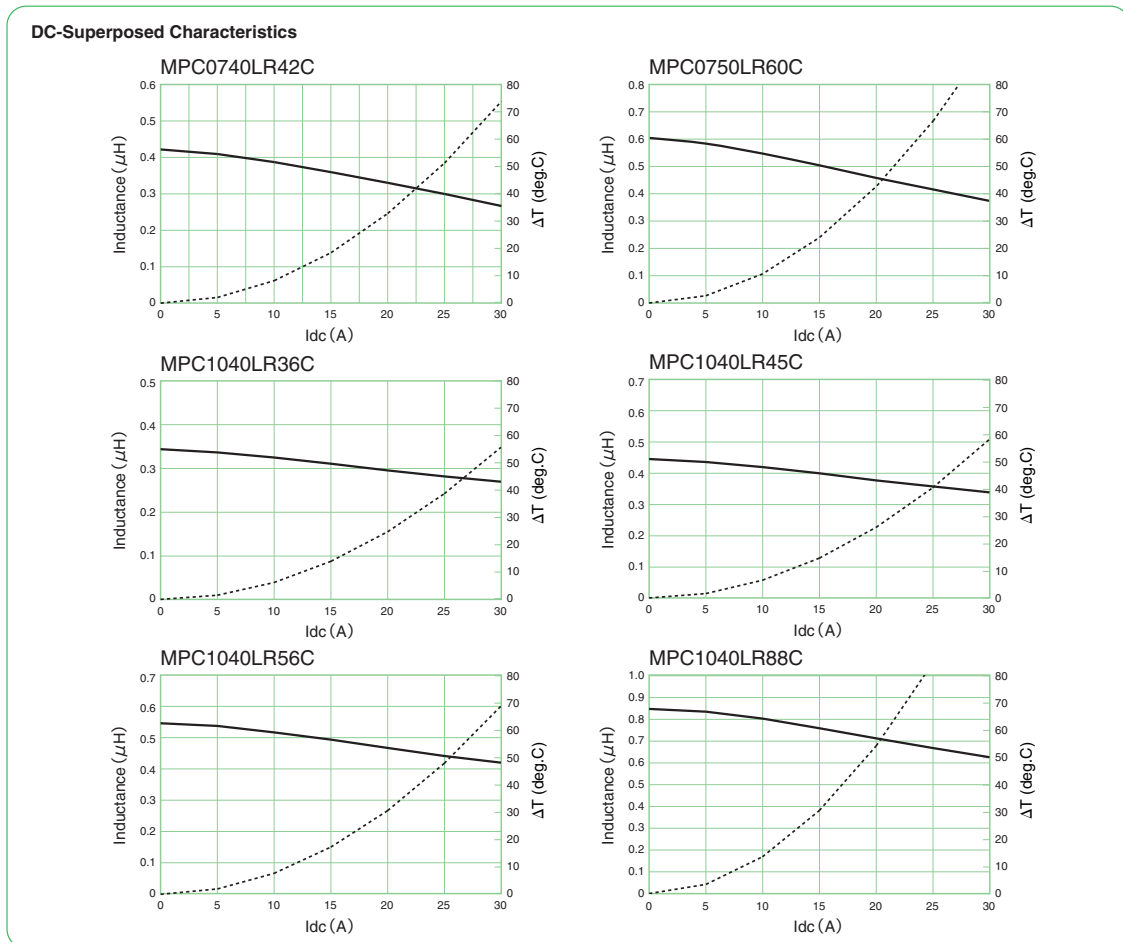


Numbering System

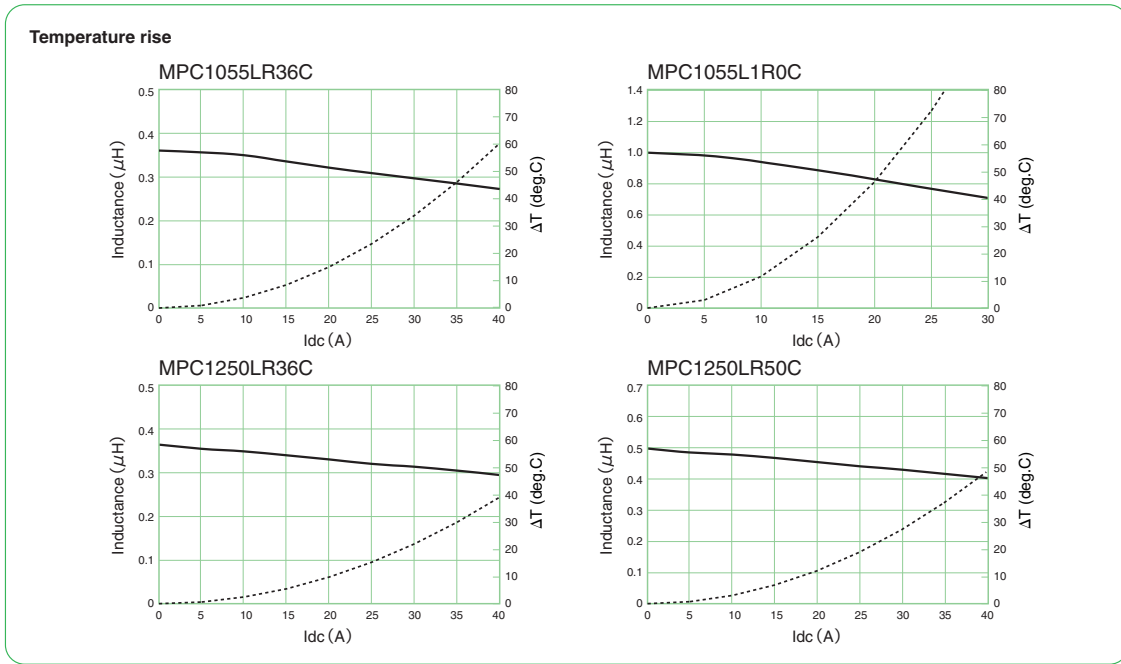
MPC - 1040 - LR36C

① ② ③

① Series
② Dimensions 10···W×D:11.5×10 mm 40···H:4.0 mm
③ Inductance R36···0.36μH

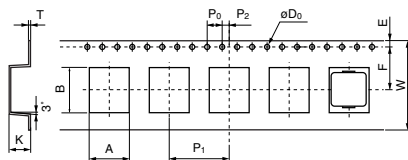


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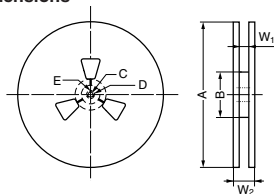
MPC0740, 0750 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|-------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.1 | ±0.1 | ±0.2 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 7.0 | 8.0 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.3 |

Reel dimensions



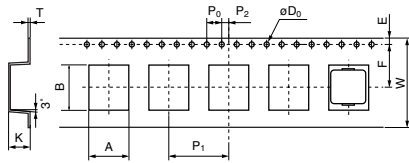
| [mm] | | | | | | | |
|------|------|-------|-------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±1.0 | ±0.2 | ±0.8 | ±0.5 | | ±1.0 | ±1.0 |
| ø330 | ø80 | ø13.0 | ø21.0 | 2.0 | R1.0 | 17.5 | 21.5 |



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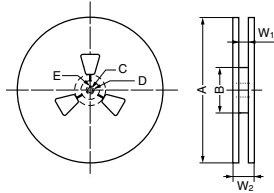
MPC1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|-------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.1 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 10.5 | 12.1 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.2 |

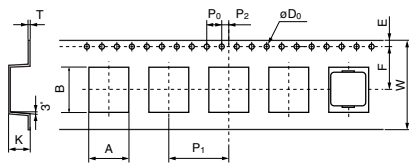
Reel dimensions



| [mm] | | | | | | | |
|------|------|-------|-------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±5.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0 | ±3.0 |
| ø330 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |

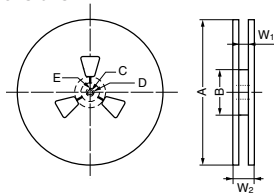
MPC1055 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|-------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.1 | ±0.1 | ±0.2 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 10.5 | 12.1 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.55 | 0.4 | 6.0 |

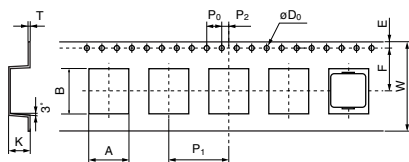
Reel dimensions



| [mm] | | | | | | | |
|------|------|-------|-------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±1.0 | ±0.5 | ±0.8 | ±0.5 | | ±2.0 | ±3.0 |
| ø380 | ø100 | ø13.0 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |

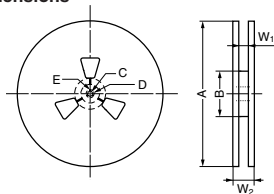
MPC1250 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.02 | ±0.1 | ±0.2 |
| 13.1 | 14.6 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.5 | 0.4 | 5.3 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|-------|-------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | ±2.0 | ±3.0 |
| ø380 | ø100 | ø13.0 | ø21.0 | 2.0 | R1.0 | 25.5 | 28.5 |



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Large-Current Power Inductors MPCG Series <Low-Loss Series>

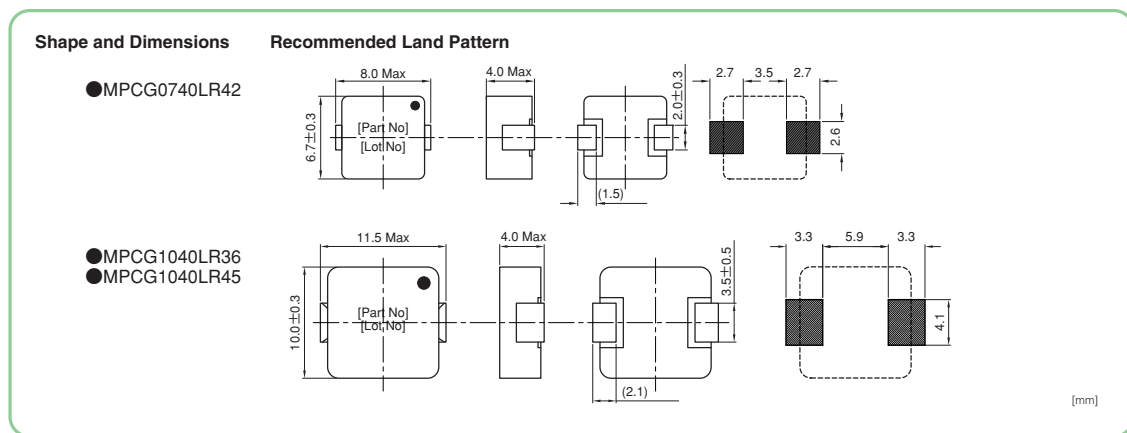
[RoHS Compliant]



• Precautions (see page 82)

| Model | Inductance (μH) at 100kHz | DC resistance (m Ω) typ. | Rated current (A) | |
|--------------|----------------------------------------|----------------------------------|----------------------------|----------------------------|
| | | | I _{rms} *1 (Ref.) | I _{sat} *2 (Ref.) |
| MPCG0740LR42 | 0.42 \pm 20% | 1.55 \pm 10% | 22.0 | 20.0 |
| MPCG1040LR36 | 0.36 \pm 20% | 1.05 \pm 10% | 25.5 | 30.0 |
| MPCG1040LR45 | 0.45 \pm 20% | 1.10 \pm 10% | 25.0 | 27.0 |

*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.
 ● Operating temperature range: -20~+120°C (Include self temperature rise)

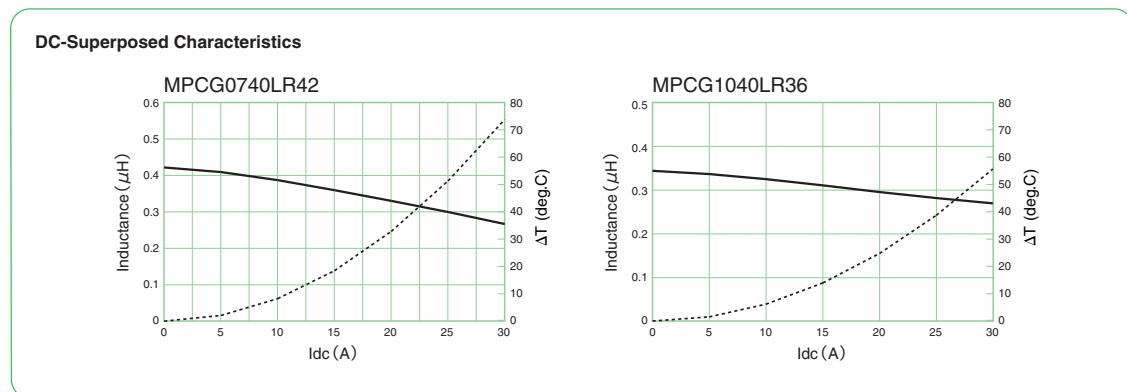


Numbering System

MPCG - 1040 - LR36

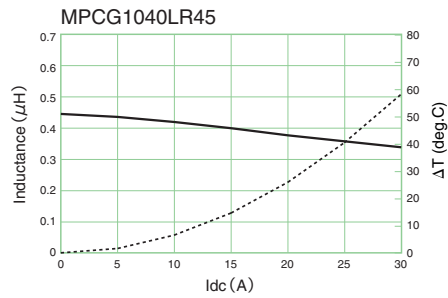
① ② ③

① Series
 ② Dimensions 10...WxD:11.5x10 mm 40...H:4.0 mm
 ③ Inductance R36...0.36 μH



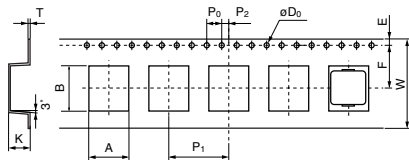
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DC-Superposed Characteristics



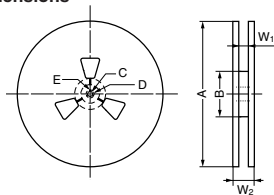
MPCG0740 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|-------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.1 | ±0.1 | ±0.2 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 7.0 | 8.0 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.3 |

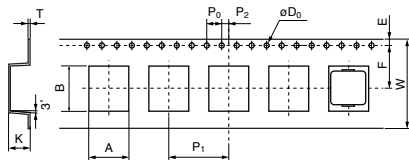
Reel dimensions



| [mm] | | | | | | | |
|------|------|-------|-------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±1.0 | ±0.2 | ±0.8 | ±0.5 | | ±1.0 | ±1.0 |
| ø330 | ø80 | ø13.0 | ø21.0 | 2.0 | R1.0 | 17.5 | 21.5 |

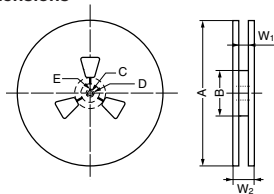
MPCG1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|-------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.1 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | ±0.1 |
| 10.5 | 12.1 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.2 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|-------|-------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±5.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0 | ±3.0 |
| ø330 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |



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Large-Current Power Inductors MPLC Series

[RoHS Compliant]



• Precautions (see page 82)

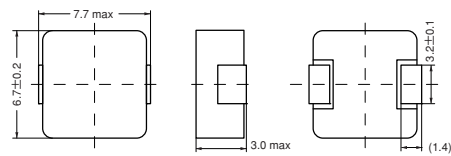
| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance (m Ω) max. | Rated current (A) | |
|--------------|--------------------------------------------|-------------------------------------|-------------------------------|-------------------------------|
| | | | I _{rms} *1 (Ref.) | I _{sat} *2 (Ref.) |
| MPLC0730L1R0 | 1.0 \pm 20% | 9.0 | 10.6 | 11.0 |
| MPLC0730L1R5 | 1.5 \pm 20% | 15.0 | 8.6 | 8.8 |
| MPLC0730L2R2 | 2.2 \pm 20% | 19.0 | 7.3 | 8.2 |
| MPLC0730L3R3 | 3.3 \pm 20% | 30.0 | 5.7 | 6.5 |
| MPLC0730L4R7 | 4.7 \pm 20% | 41.0 | 5.0 | 5.6 |
| MPLC1040L1R0 | 1.0 \pm 20% | 5.5 | 14.3 | 16.2 |
| MPLC1040L1R5 | 1.5 \pm 20% | 7.0 | 12.4 | 12.7 |
| MPLC1040L2R2 | 2.2 \pm 20% | 10.0 | 10.5 | 11.0 |
| MPLC1040L3R3 | 3.3 \pm 20% | 14.0 | 8.8 | 9.3 |
| MPLC1040L4R7 | 4.7 \pm 20% | 19.0 | 8.0 | 8.0 |

*1 T=40K rise at rated current. *2 Inductance drop 20% at rated current.

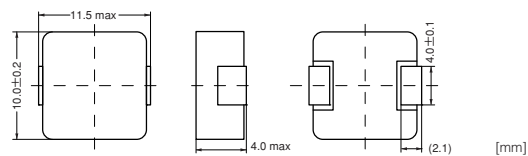
● Operating temperature range: -20~+120°C (Include self temperature rise)

Shape and Dimensions

● MPLC0730 Series

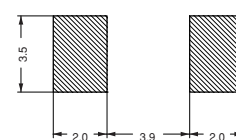


● MPLC1040 Series

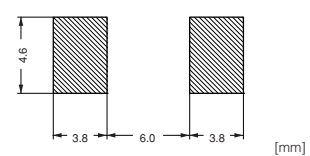


Recommended Land Pattern

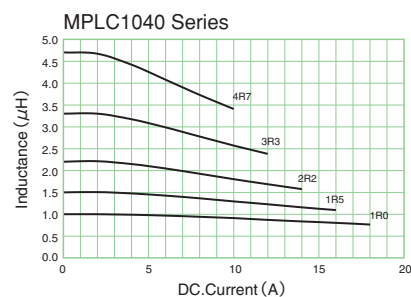
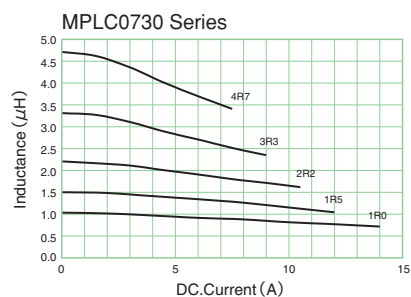
● MPLC0730 Series



● MPLC1040 Series



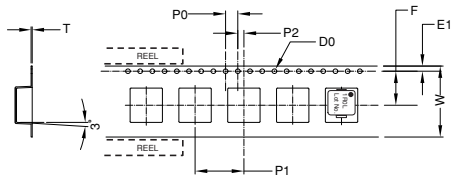
DC-Superposed Characteristics



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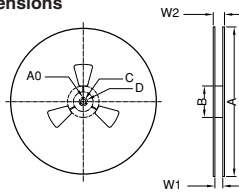
MPLC0730 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | |
|------|------|----------------|----------------|----------------|----------------|-----------------|-------|
| W | F | E ₁ | P ₁ | P ₂ | P ₀ | øD ₀ | T |
| ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 |
| 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 |

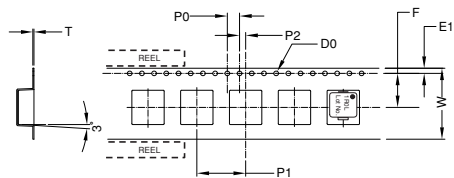
Reel dimensions



| [mm] | | | | | | | |
|------|------|-------|-------|----------------|------|----------------|----------------|
| A | B | C | D | A ₀ | r | W ₁ | W ₂ |
| ±5.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | 2.0 | ±0.5 | ±0.5 |
| ø380 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 25.5 | 29.5 |

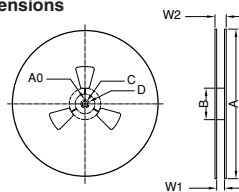
MPLC1040 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | |
|------|------|----------------|----------------|----------------|----------------|-----------------|-------|
| W | F | E ₁ | P ₁ | P ₂ | P ₀ | øD ₀ | T |
| ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 |
| 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|-------|-------|----------------|------|----------------|----------------|
| A | B | C | D | A ₀ | r | W ₁ | W ₂ |
| ±2.0 | ±1.0 | ±0.5 | ±0.8 | ±0.5 | 2.0 | ±2.0 | ±3.0 |
| ø330 | ø80 | ø13.5 | ø21.0 | 2.0 | R1.0 | 24.4 | 30.4 |

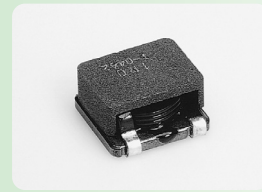


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Large-Current Power Inductors

C·PI Series

[RoHS Compliant]

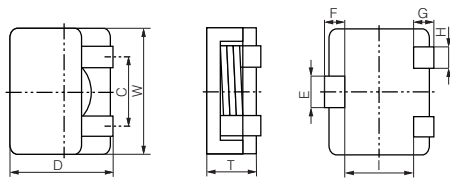


• Precautions (see page 82)

| Model | Inductance (μH) at DC OA, 100kHz | DC resistance ($\text{m}\Omega$) max. | Rated current (A) | |
|----------------|-----------------------------------------------------|--------------------------------------------|-------------------------------|-------------------------------|
| | | | I _{rms} *1 (Ref.) | I _{sat} *2 (Ref.) |
| C·PI-1050-0R6S | 0.55 \pm 30% | 1.7(1.4) | 19.0 | 17.0 |
| C·PI-1050-1R0S | 1.0 \pm 30% | 2.9(2.5) | 16.0 | 15.0 |
| C·PI-1050-1R6S | 1.6 \pm 30% | 4.0(3.5) | 13.0 | 13.0 |
| C·PI-1050-2R2S | 2.2 \pm 30% | 6.3(5.4) | 11.0 | 12.0 |
| C·PI-1050-2R7S | 2.7 \pm 30% | 12.6(10.5) | 9.0 | 10.0 |
| C·PI-1250-0R6S | 0.55 \pm 30% | 1.2(0.9) | 25.0 | 26.0 |
| C·PI-1350-0R7S | 0.7 \pm 30% | 1.5(1.3) | 24.0 | 30.0 |
| C·PI-1350-1R2S | 1.2 \pm 30% | 2.5(2.1) | 19.0 | 17.0 |
| C·PI-1365-0R7S | 0.7 \pm 30% | 1.3(1.1) | 26.0 | 30.0 |
| C·PI-1365-1R2S | 1.2 \pm 30% | 1.7(1.5) | 24.0 | 25.0 |
| C·PI-1365-3R0S | 2.7 \pm 30% | 5.7(4.75) | 13.0 | 13.0 |

*1 $T=40\text{K}$ rise at rated current. *2 Inductance drop 20% at rated current.
 ● Operating temperature range : $-20\text{to}+120\text{C}$ (Includes self-temperature rise)

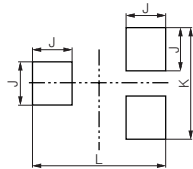
Shape and Dimensions



| Model | W | D | C | T | E | F | G | H | I |
|------------------|------|------|-----|----------|-----|-----|-----|-----|-----|
| C·PI-1050 Series | 10.4 | 10.0 | 6.0 | 5.0 max. | 1.8 | 1.3 | 2.0 | 1.4 | 6.2 |
| C·PI-1250 Series | 13.3 | 12.5 | 8.3 | 5.0 max. | 2.4 | 2.2 | 2.4 | 2.4 | 7.8 |
| C·PI-1350 Series | 14.0 | 13.5 | 8.5 | 5.0 max. | 2.4 | 2.2 | 2.5 | 2.0 | 8.5 |
| C·PI-1365 Series | 14.0 | 13.5 | 8.5 | 6.5 max. | 2.4 | 2.2 | 2.5 | 2.0 | 8.5 |

[mm]

Recommended Land Pattern



| Model | J | K | L |
|------------------|-----|------|------|
| C·PI-1050 Series | 3.5 | 10.1 | 11.5 |
| C·PI-1250 Series | 4.0 | 11.8 | 13.4 |
| C·PI-1350 Series | 4.0 | 12.3 | 15.2 |
| C·PI-1365 Series | 4.0 | 12.3 | 15.2 |

[mm]

Numbering System

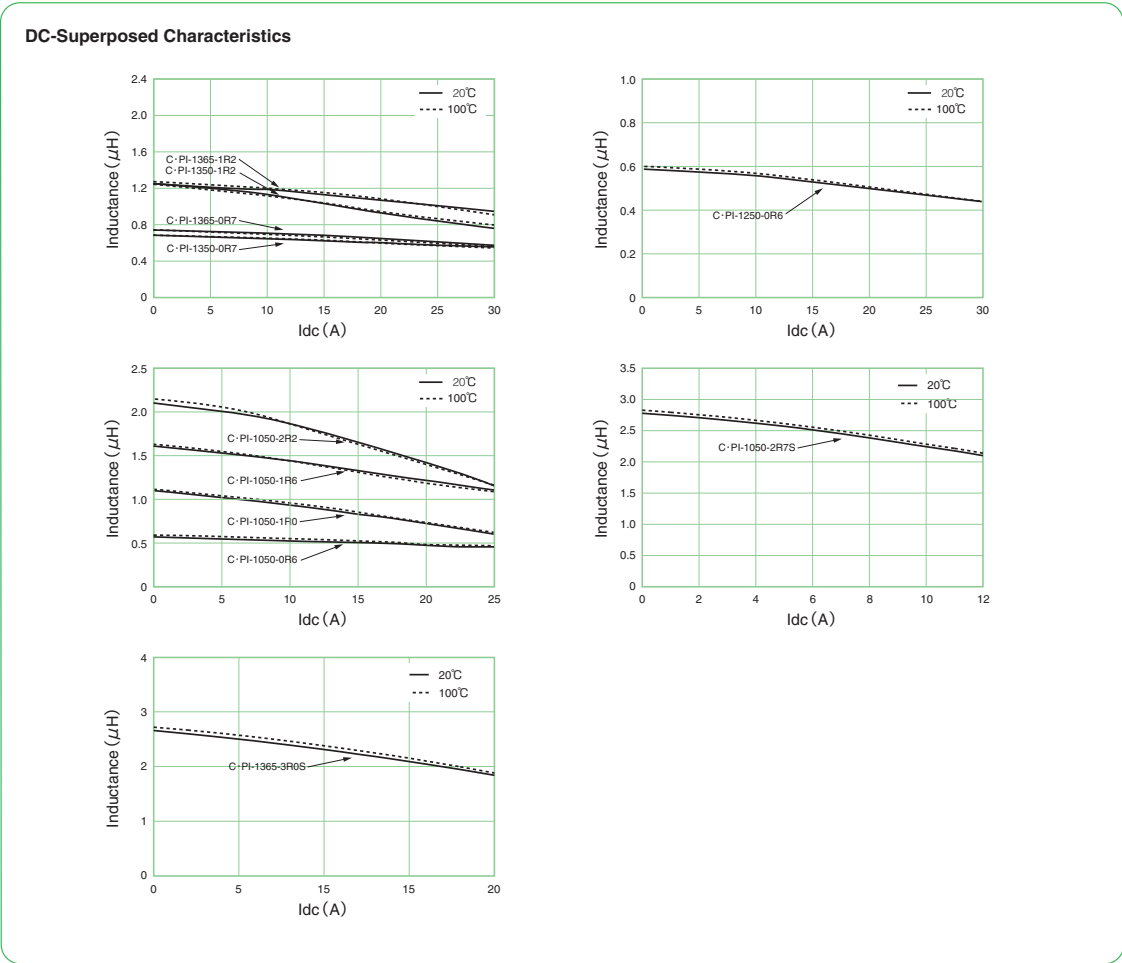
C·PI - 1350 - 0R7

① ② ③

① Series
 ② Dimensions 13··W×D : 14.0×13.5 mm 50··H : 5.0 mm
 ③ Inductance 0R7··0.7 μH

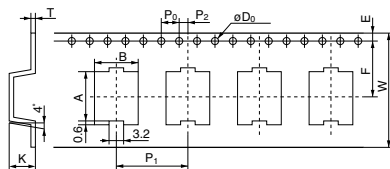


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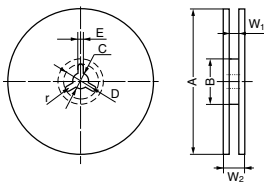
C•PI-1050 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | φD ₀ | T | K |
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | +0.2,-0 | ±0.1 | ±0.2 |
| 10 | 10.5 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | 1.5 | 0.4 | 5.9 |

Reel dimensions



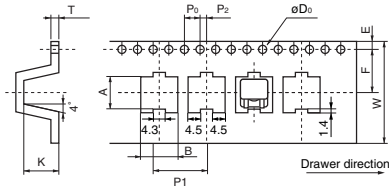
| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 380 | 100 | 13 | 21 | 2.0 | R1.0 | 25.5 | 28.5 |



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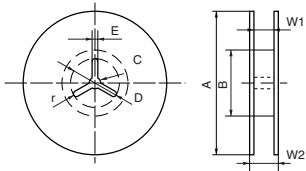
C•PI-1250 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | +0.2,-0 | ±0.1 | ±0.2 |
| 13.3 | 13.3 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.5 | 0.4 | 5.4 |

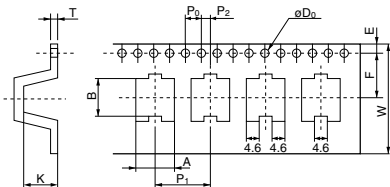
Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 380 | 100 | 13.0 | 21.0 | 2.0 | R1.0 | 25.5 | 28.5 |

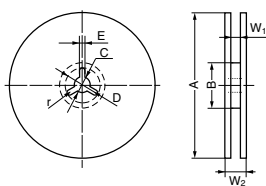
C•PI-13•• Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|------|------|------|------|----------------|----------------|----------------|-----------------|------|------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T | K |
| ±0.2 | ±0.2 | ±0.4 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | ±0.2 | +0.2,-0 | ±0.1 | ±0.2 |
| 14.65 | 14.1 | 24.0 | 11.5 | 1.75 | 24.0 | 2.0 | 4.0 | 1.5 | 0.4 | 6.8 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 380 | 100 | 13 | 21 | 2.0 | R1.0 | 25.5 | 28.5 |



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Leadless Power Inductors PLC-0735 Series

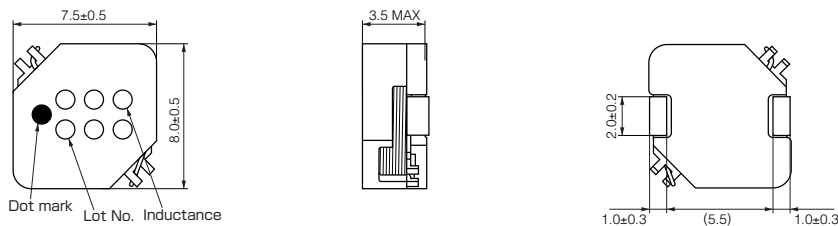
[RoHS Compliant]



| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-0735-2R0S | 2.0 \pm 30% | 24 | 5.0 | 7.3 | 6.3 |
| PLC-0735-3R3S | 3.3 \pm 30% | 28 | 4.7 | 6.7 | 4.0 |
| PLC-0735-4R7S | 4.7 \pm 30% | 44 | 3.5 | 6.0 | 3.9 |
| PLC-0735-5R6S | 5.6 \pm 30% | 50 | 3.3 | 5.1 | 3.8 |
| PLC-0735-6R8S | 6.8 \pm 30% | 62 | 3.2 | 4.4 | 3.5 |
| PLC-0735-8R2S | 8.2 \pm 30% | 77 | 2.7 | 4.1 | 3.0 |
| PLC-0735-100S | 10.0 \pm 20% | 84 | 2.6 | 3.8 | 2.8 |
| PLC-0735-120S | 12.0 \pm 20% | 101 | 2.2 | 3.6 | 2.7 |
| PLC-0735-150S | 15.0 \pm 20% | 108 | 2.1 | 3.3 | 2.5 |
| PLC-0735-180S | 18.0 \pm 20% | 120 | 1.9 | 2.8 | 2.1 |
| PLC-0735-220S | 22.0 \pm 20% | 164 | 1.7 | 2.4 | 1.8 |
| PLC-0735-330S | 33.0 \pm 20% | 220 | 1.6 | 2.2 | 1.6 |

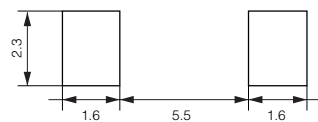
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
 ● Operating temperature range : -20to+120°C (including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

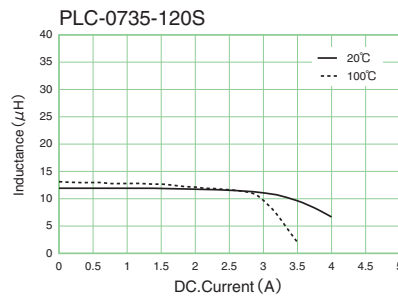
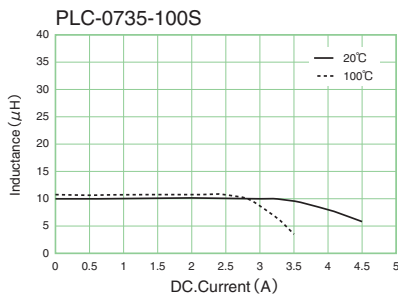
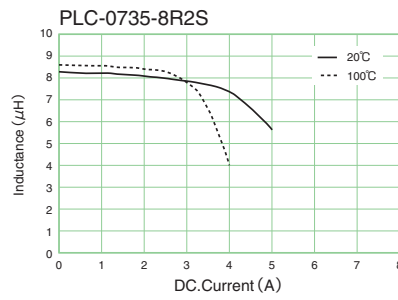
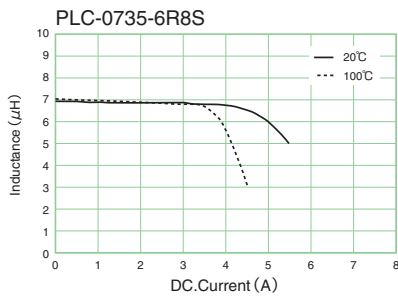
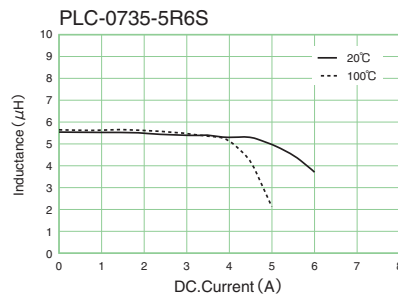
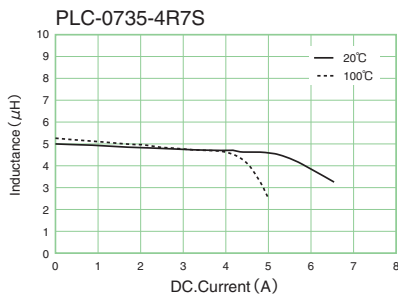
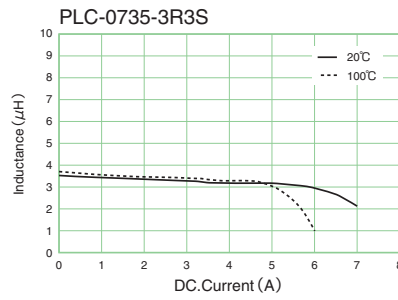
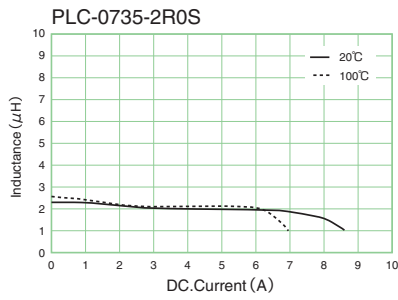


[mm]



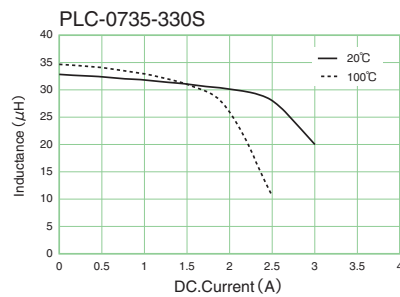
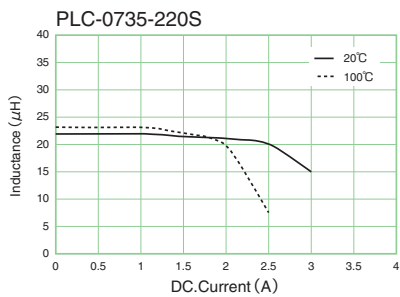
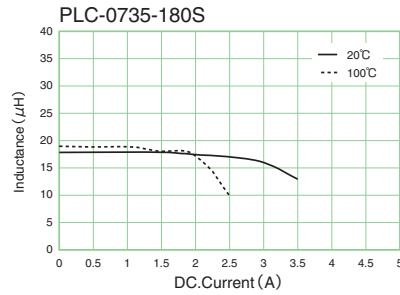
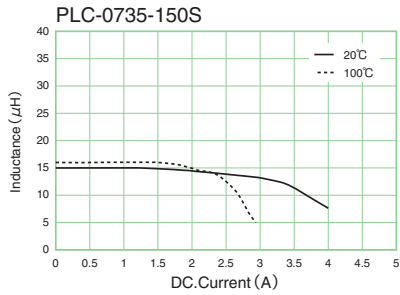
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DC-Superposed Characteristics



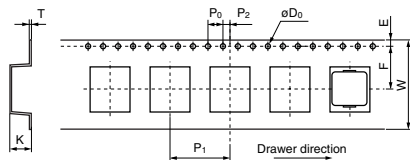
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DC-Superposed Characteristics



PLC-0735 Series

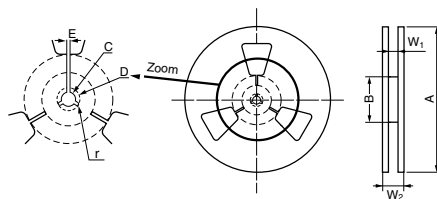
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0735 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 3.8 |

| | pcs./reel |
|-------------|-----------|
| 0735 Series | 1000 |

Reel dimensions



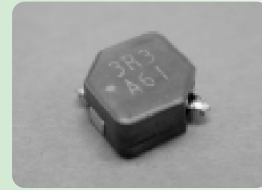
| | A | B | C | D | E | r | W1 | W2 |
|--|-----|-----|-------|-------|-------|------|-------|-------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-0745 Series

[RoHS Compliant]

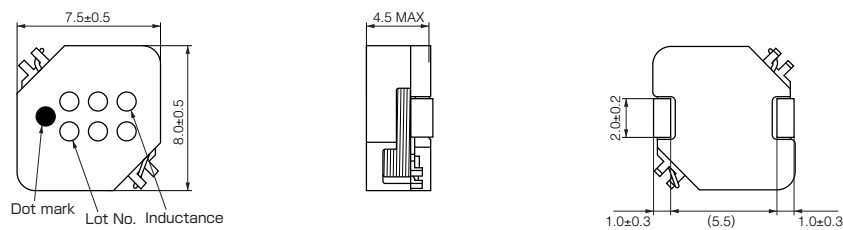


| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) I_{rms} *1 | Isat (Ref.) *2 | |
|---------------|--------------------------------------------|-----------------------------------------|-----------------------------------|----------------|----------|
| | | | | at 20°C | at 100°C |
| PLC-0745-2R0S | 2.0 \pm 30% | 19 | 5.1 | 7.0 | 6.2 |
| PLC-0745-3R3S | 3.3 \pm 30% | 22 | 4.8 | 5.9 | 3.8 |
| PLC-0745-4R7S | 4.7 \pm 30% | 34 | 4.0 | 5.0 | 3.7 |
| PLC-0745-5R6S | 5.6 \pm 30% | 38 | 3.8 | 4.9 | 3.6 |
| PLC-0745-6R8S | 6.8 \pm 30% | 40 | 3.6 | 4.4 | 3.1 |
| PLC-0745-8R2S | 8.2 \pm 30% | 70 | 2.8 | 3.8 | 2.7 |
| PLC-0745-100S | 10.0 \pm 20% | 80 | 2.6 | 3.3 | 2.4 |
| PLC-0745-120S | 12.0 \pm 20% | 90 | 2.4 | 3.2 | 2.3 |
| PLC-0745-150S | 15.0 \pm 20% | 107 | 2.2 | 2.8 | 2.0 |
| PLC-0745-180S | 18.0 \pm 20% | 113 | 2.1 | 2.6 | 1.9 |
| PLC-0745-220S | 22.0 \pm 20% | 135 | 1.9 | 2.3 | 1.7 |
| PLC-0745-330S | 33.0 \pm 20% | 200 | 1.7 | 1.9 | 1.3 |

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.

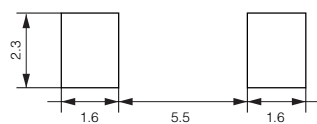
● Operating temperature range : -20to+120°C(Including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

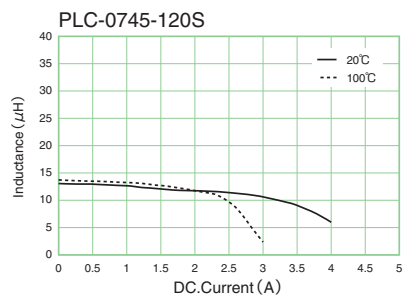
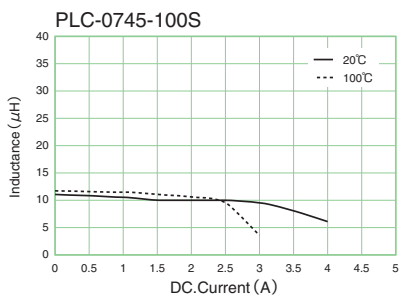
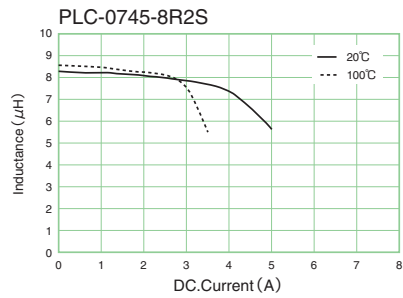
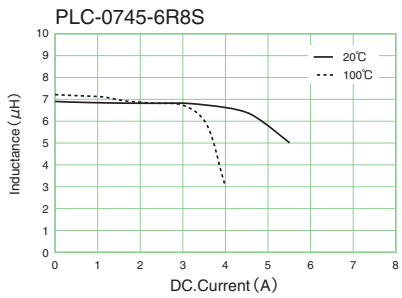
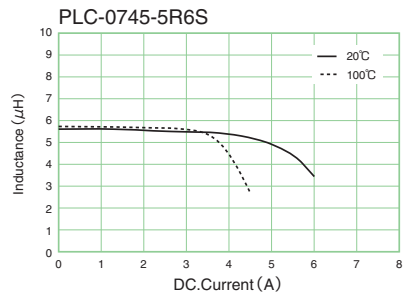
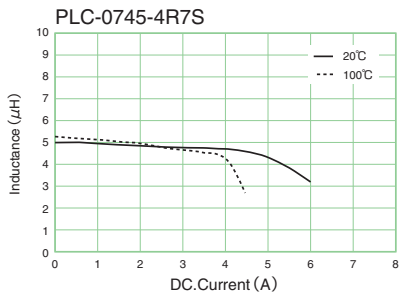
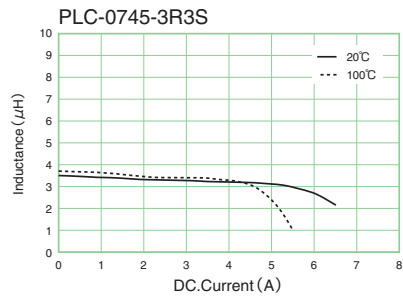
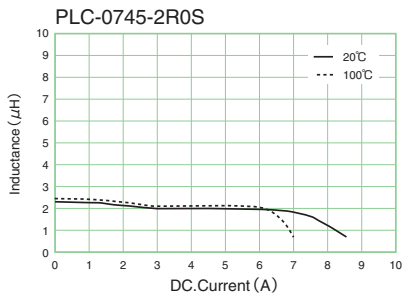


[mm]



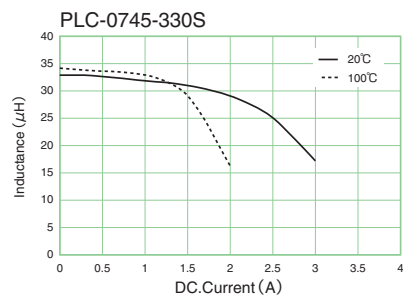
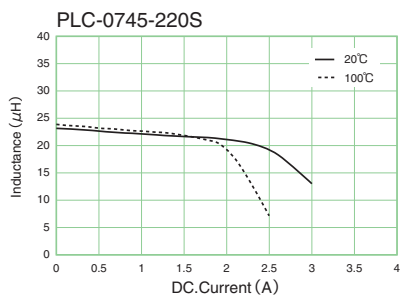
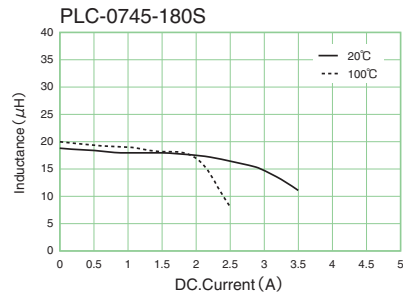
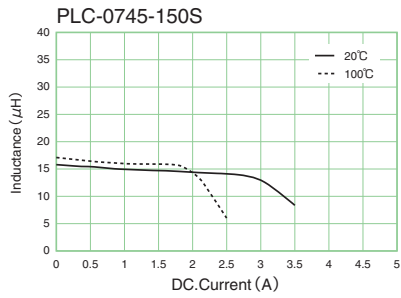
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DC-Superposed Characteristics



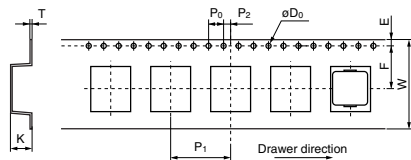
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DC-Superposed Characteristics



PLC-0745 Series

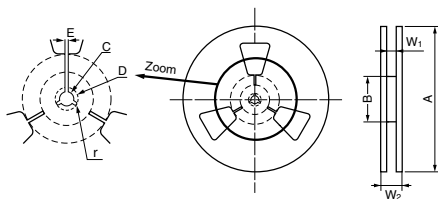
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0745 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 4.8 |

| | pcs./reel |
|-------------|-----------|
| 0745 Series | 1000 |

Reel dimensions



| | A | B | C | D | E | r | W ₁ | W ₂ |
|--|-----|-----|-------|-------|-------|------|----------------|----------------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-0755 Series

[RoHS Compliant]

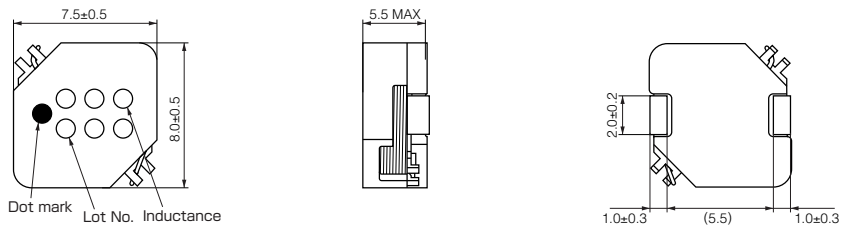


| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-0755-2R0S | 2.0 \pm 30% | 15 | 6.4 | 7.2 | 6.4 |
| PLC-0755-3R3S | 3.3 \pm 30% | 20 | 5.6 | 6.2 | 3.9 |
| PLC-0755-4R7S | 4.7 \pm 30% | 24 | 5.1 | 5.2 | 3.8 |
| PLC-0755-5R6S | 5.6 \pm 30% | 26 | 4.8 | 5.0 | 3.6 |
| PLC-0755-6R8S | 6.8 \pm 30% | 34 | 4.6 | 4.4 | 3.4 |
| PLC-0755-8R2S | 8.2 \pm 30% | 37 | 4.1 | 4.0 | 3.0 |
| PLC-0755-100S | 10.0 \pm 20% | 40 | 3.9 | 3.7 | 2.7 |
| PLC-0755-120S | 12.0 \pm 20% | 55 | 3.4 | 3.3 | 2.5 |
| PLC-0755-150S | 15.0 \pm 20% | 67 | 2.8 | 3.2 | 2.4 |
| PLC-0755-180S | 18.0 \pm 20% | 80 | 2.4 | 2.7 | 2.0 |
| PLC-0755-220S | 22.0 \pm 20% | 125 | 2.2 | 2.4 | 1.8 |
| PLC-0755-330S | 33.0 \pm 20% | 166 | 1.9 | 1.9 | 1.4 |

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.

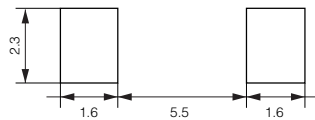
●Operating temperature range : -20to+120°C (including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

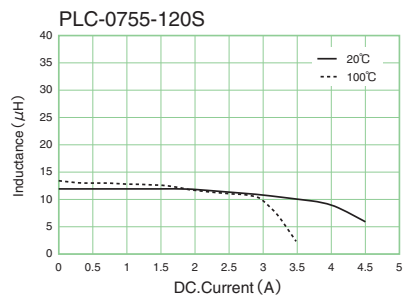
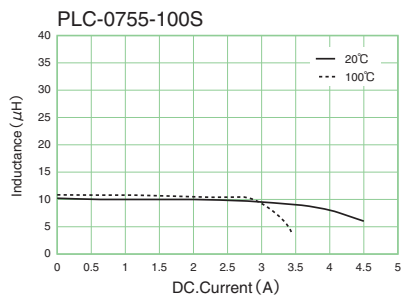
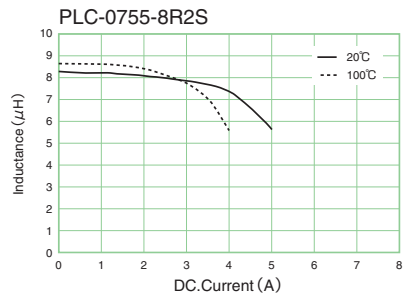
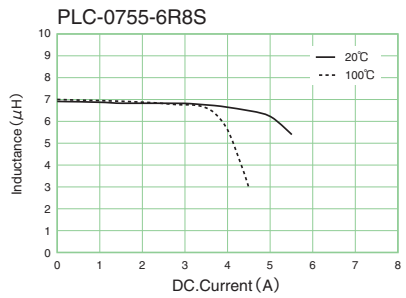
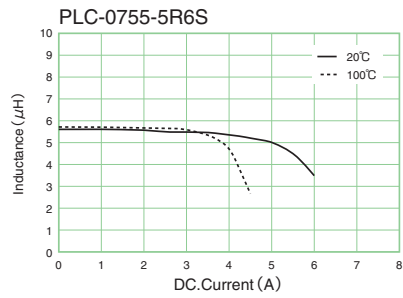
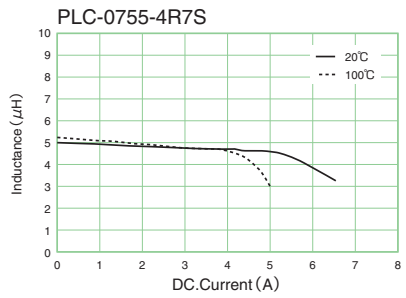
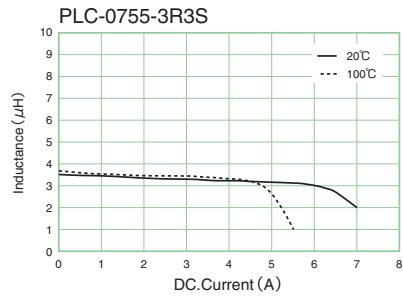
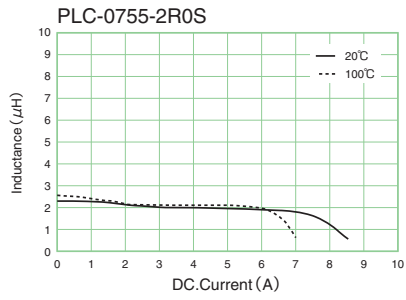


[mm]



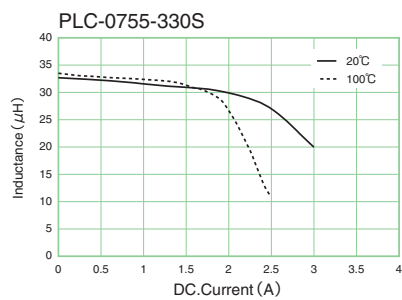
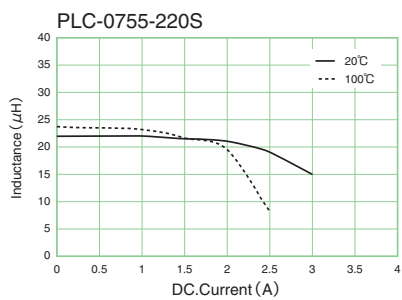
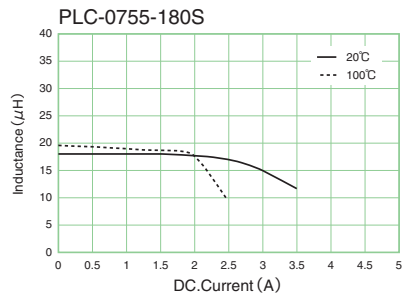
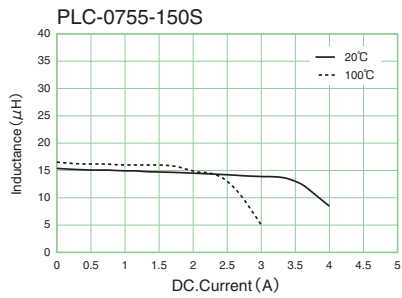
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DC-Superposed Characteristics



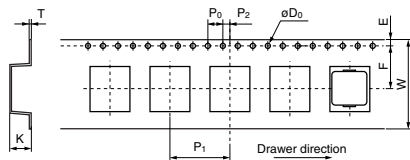
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DC-Superposed Characteristics



PLC-0755 Series

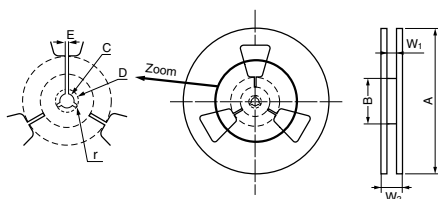
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0755 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.8 |

| | pcs./reel |
|-------------|-----------|
| 0755 Series | 800 |

Reel dimensions



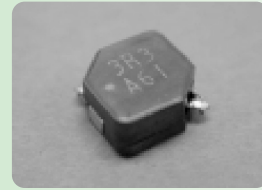
| | A | B | C | D | E | r | W1 | W2 |
|--|-----|-----|-------|-------|-------|------|-------|-------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-0760 Series

[RoHS Compliant]

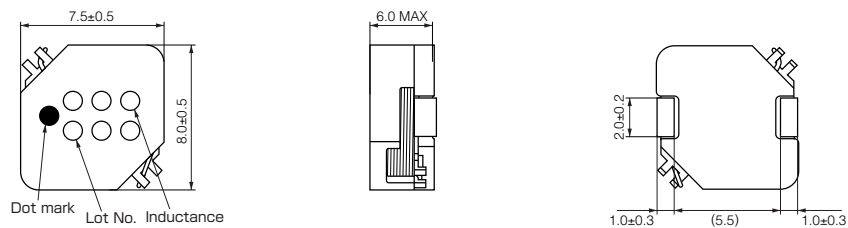


| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-0760-2R0S | 2.0 \pm 30% | 14 | 6.5 | 7.0 | 5.3 |
| PLC-0760-3R3S | 3.3 \pm 30% | 18 | 5.8 | 5.4 | 4.1 |
| PLC-0760-4R7S | 4.7 \pm 30% | 21 | 5.2 | 4.6 | 3.5 |
| PLC-0760-5R6S | 5.6 \pm 30% | 23 | 4.9 | 4.1 | 3.1 |
| PLC-0760-6R8S | 6.8 \pm 30% | 31 | 4.7 | 3.9 | 3.0 |
| PLC-0760-8R2S | 8.2 \pm 30% | 34 | 4.4 | 3.5 | 2.5 |
| PLC-0760-100S | 10.0 \pm 20% | 37 | 4.1 | 3.2 | 2.4 |
| PLC-0760-120S | 12.0 \pm 20% | 42 | 3.6 | 2.9 | 2.1 |
| PLC-0760-150S | 15.0 \pm 20% | 57 | 3.1 | 2.5 | 1.8 |
| PLC-0760-180S | 18.0 \pm 20% | 64 | 2.9 | 2.4 | 1.7 |
| PLC-0760-220S | 22.0 \pm 20% | 71 | 2.7 | 2.2 | 1.6 |
| PLC-0760-330S | 33.0 \pm 20% | 130 | 1.9 | 1.8 | 1.3 |

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.

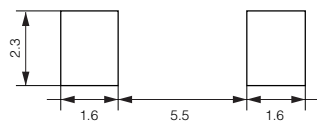
● Operating temperature range : -20to+120°C (Including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

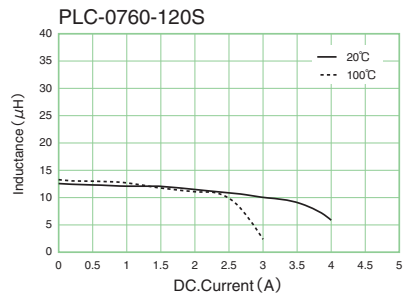
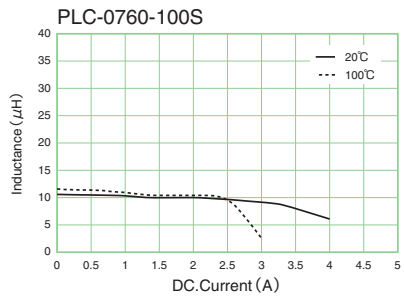
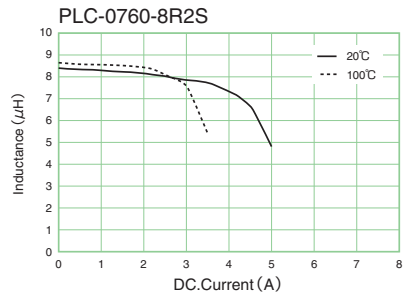
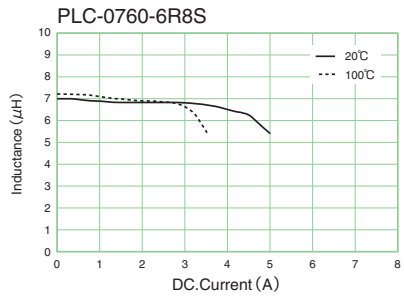
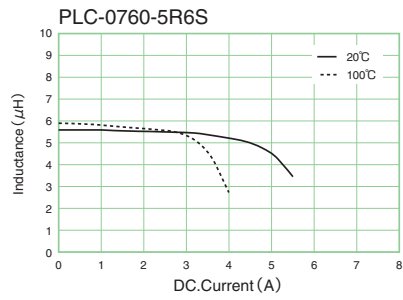
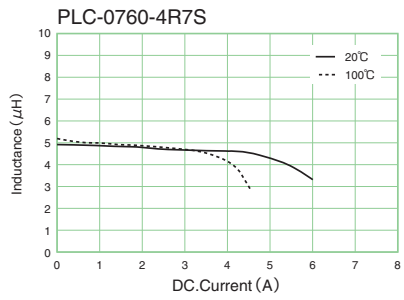
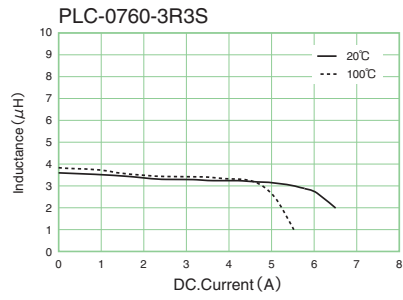
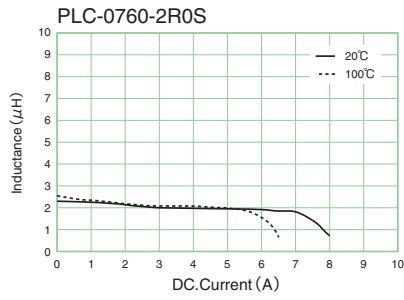


[mm]



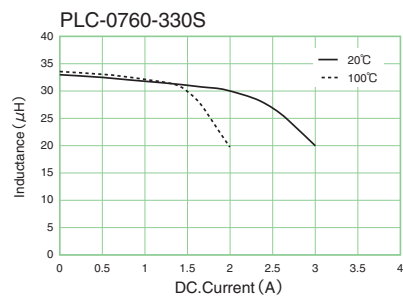
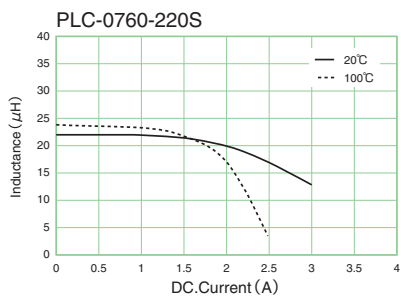
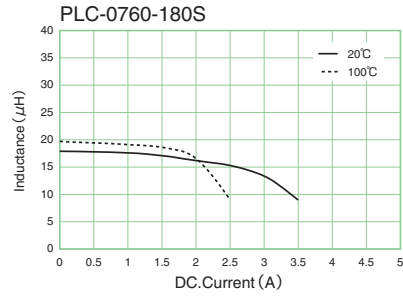
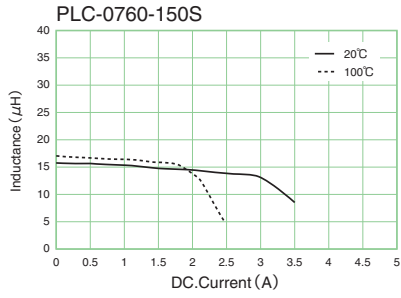
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DC-Superposed Characteristics



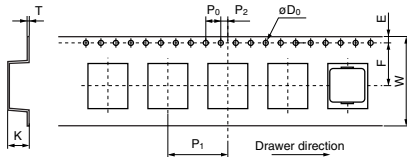
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DC-Superposed Characteristics



PLC-0760 Series

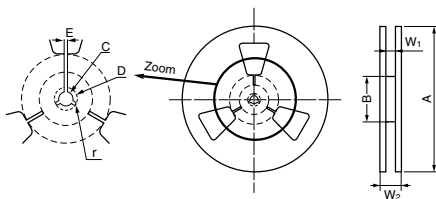
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 0760 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 6.3 |

| | pcs./reel |
|-------------|-----------|
| 0760 Series | 800 |

Reel dimensions



| | A | B | C | D | E | r | W ₁ | W ₂ |
|-----|-----|------|-------|-------|-------|---|----------------|----------------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | | 25.5 | 29.5 |



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Leadless Power Inductors PLC-1035 Series

[RoHS Compliant]

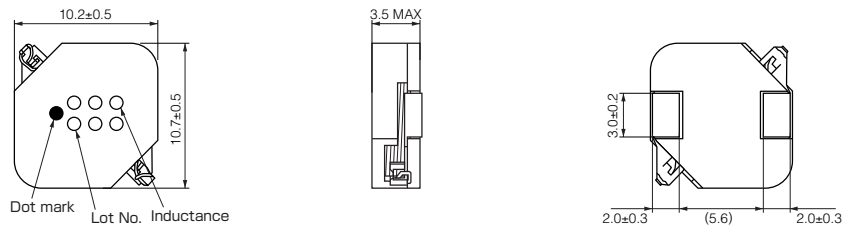


| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-1035-2R0S | 2.0 \pm 30% | 25 | 6.0 | 11.4 | 8.1 |
| PLC-1035-3R3S | 3.3 \pm 30% | 28 | 5.7 | 9.5 | 6.9 |
| PLC-1035-4R7S | 4.7 \pm 30% | 38 | 5.2 | 8.7 | 6.3 |
| PLC-1035-5R6S | 5.6 \pm 30% | 44 | 4.7 | 7.9 | 5.8 |
| PLC-1035-6R8S | 6.8 \pm 30% | 52 | 4.2 | 6.6 | 4.7 |
| PLC-1035-8R2S | 8.2 \pm 30% | 60 | 3.7 | 6.3 | 4.4 |
| PLC-1035-100S | 10.0 \pm 20% | 75 | 3.4 | 6.0 | 4.1 |
| PLC-1035-120S | 12.0 \pm 20% | 115 | 2.4 | 5.7 | 4.0 |
| PLC-1035-150S | 15.0 \pm 20% | 120 | 2.2 | 4.8 | 3.4 |
| PLC-1035-180S | 18.0 \pm 20% | 138 | 2.1 | 4.4 | 3.3 |
| PLC-1035-220S | 22.0 \pm 20% | 165 | 2.0 | 4.2 | 3.0 |
| PLC-1035-330S | 33.0 \pm 20% | 238 | 1.5 | 3.0 | 2.2 |

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.

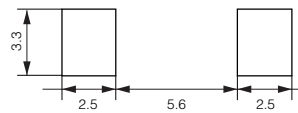
● Operating temperature range : -20to+120°C (including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

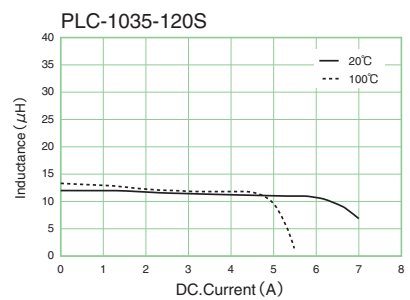
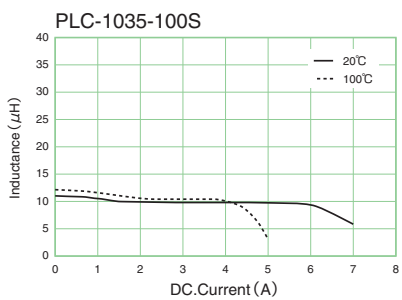
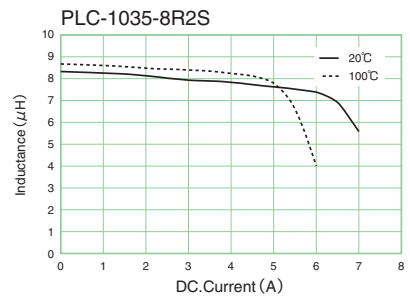
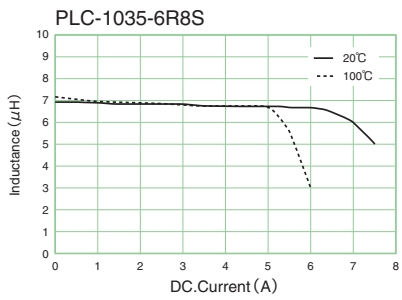
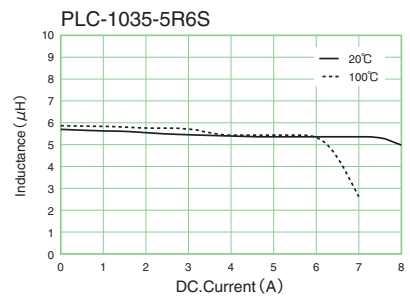
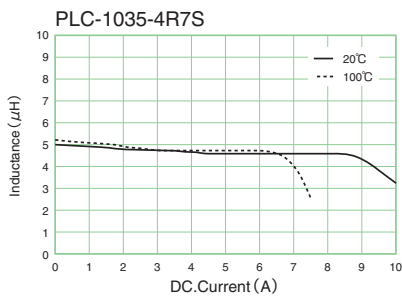
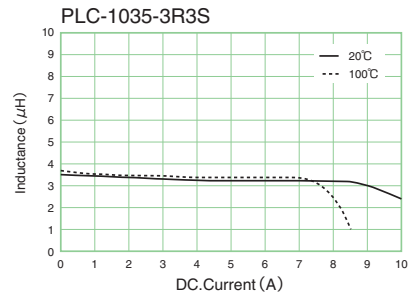
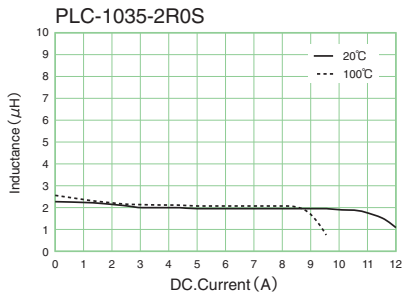


[mm]



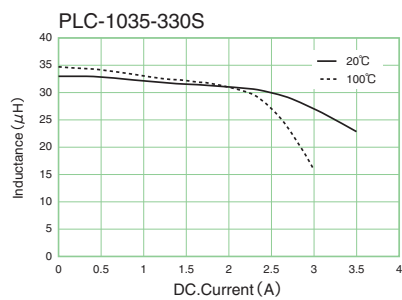
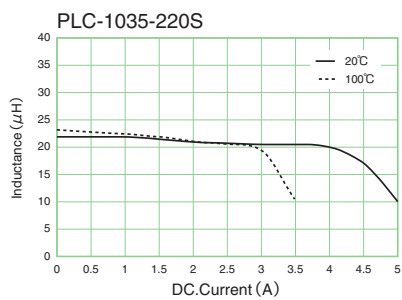
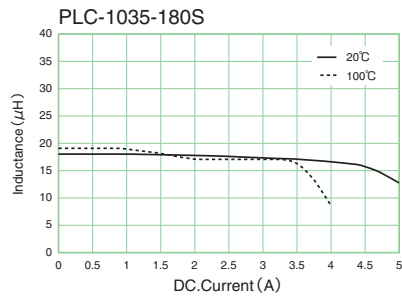
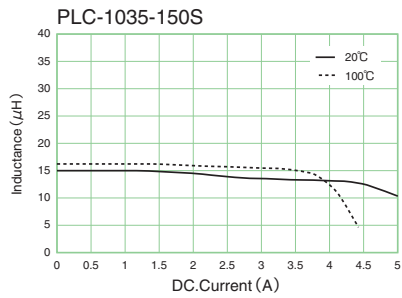
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DC-Superposed Characteristics



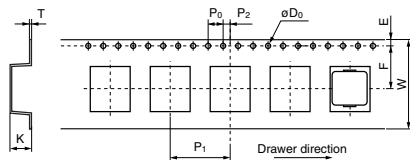
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DC-Superposed Characteristics



PLC-1035 Series

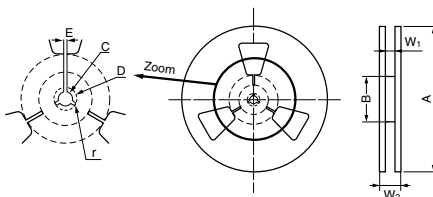
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1035 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 3.8 |

| | pcs./reel |
|-------------|-----------|
| 1035 Series | 1000 |

Reel dimensions



| | A | B | C | D | E | r | W1 | W2 |
|--|-----|-----|-------|-------|-------|------|-------|-------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-1045 Series

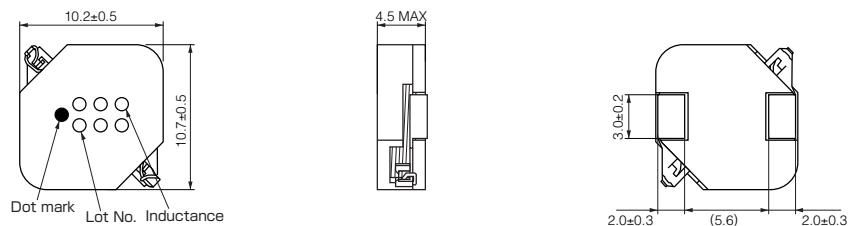
[RoHS Compliant]



| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|------------------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C at 100°C |
| PLC-1045-2R0S | 2.0 \pm 30% | 16 | 6.9 | 10.6 7.6 |
| PLC-1045-3R3S | 3.3 \pm 30% | 21 | 6.1 | 8.5 6.6 |
| PLC-1045-4R7S | 4.7 \pm 30% | 23 | 5.5 | 6.3 4.8 |
| PLC-1045-5R6S | 5.6 \pm 30% | 25 | 5.1 | 5.9 4.4 |
| PLC-1045-6R8S | 6.8 \pm 30% | 28 | 4.7 | 5.6 4.3 |
| PLC-1045-8R2S | 8.2 \pm 30% | 36 | 4.0 | 5.2 4.2 |
| PLC-1045-100S | 10.0 \pm 20% | 41 | 3.6 | 4.9 3.9 |
| PLC-1045-120S | 12.0 \pm 20% | 50 | 3.4 | 4.7 3.6 |
| PLC-1045-150S | 15.0 \pm 20% | 65 | 3.2 | 4.1 3.1 |
| PLC-1045-180S | 18.0 \pm 20% | 70 | 3.0 | 3.4 2.7 |
| PLC-1045-220S | 22.0 \pm 20% | 95 | 2.9 | 3.3 2.4 |
| PLC-1045-330S | 33.0 \pm 20% | 165 | 2.2 | 2.7 2.0 |

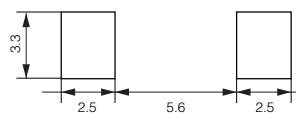
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
 ● Operating temperature range : -20to+120°C (Including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

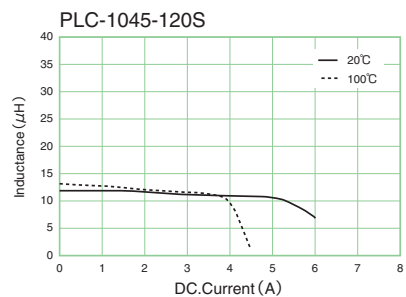
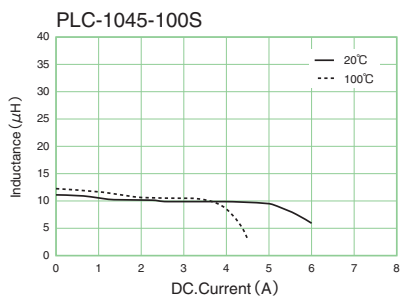
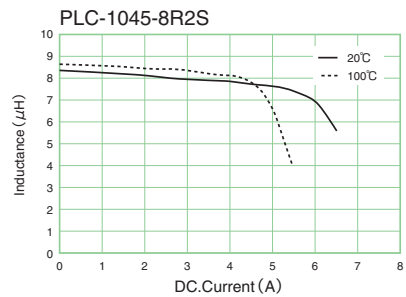
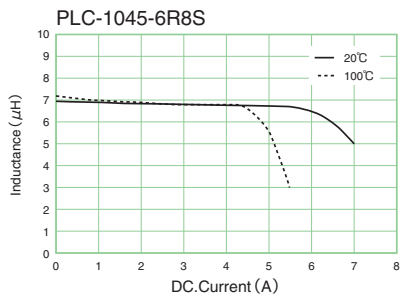
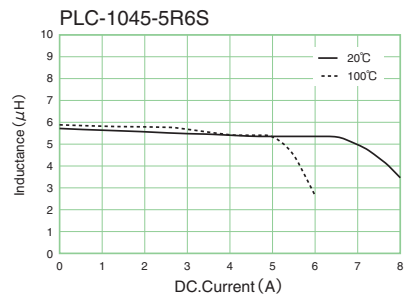
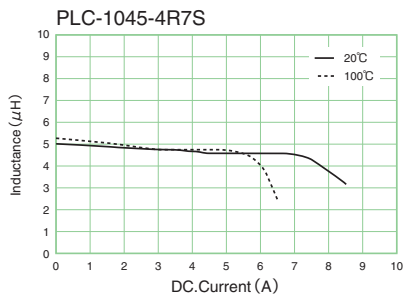
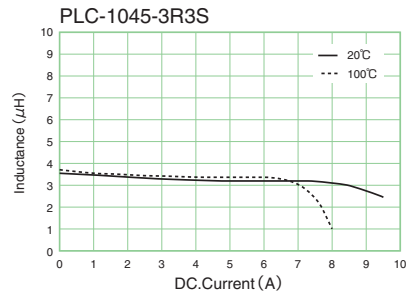
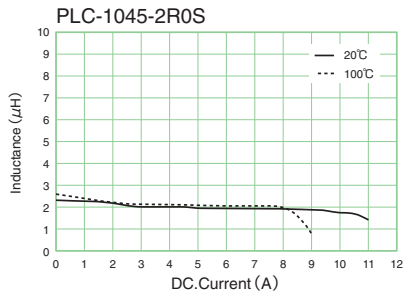


[mm]



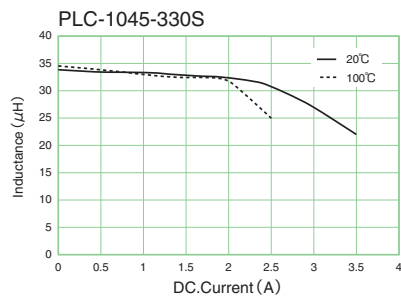
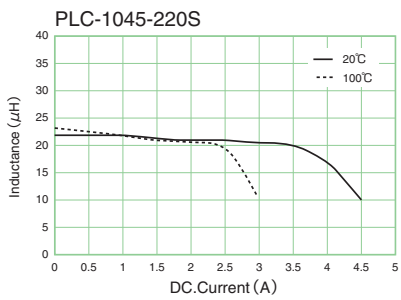
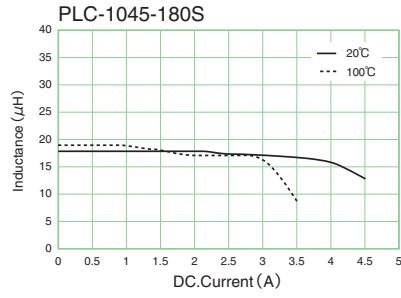
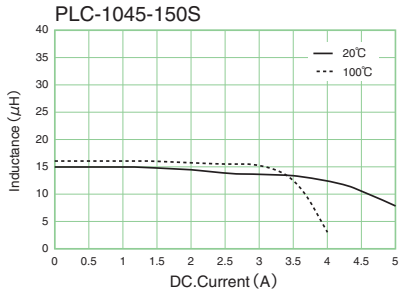
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DC-Superposed Characteristics



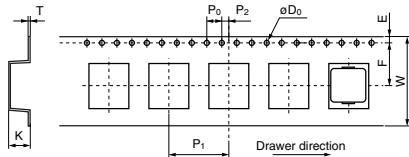
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DC-Superposed Characteristics



PLC-1045 Series

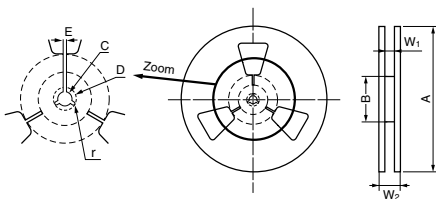
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1045 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 4.8 |

| | pcs./reel |
|-------------|-----------|
| 1045 Series | 1000 |

Reel dimensions



| | A | B | C | D | E | r | W ₁ | W ₂ |
|--|-----|-----|-------|-------|-------|------|----------------|----------------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-1055 Series

[RoHS Compliant]

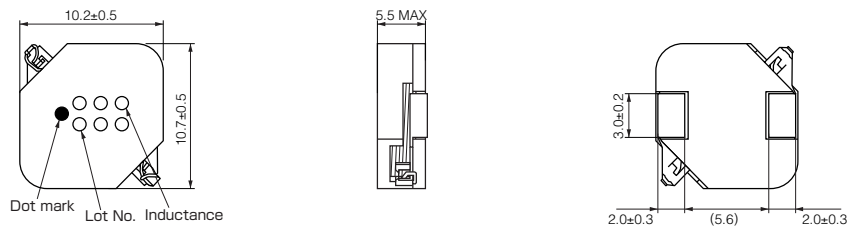


| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-1055-2R0S | 2.0 \pm 30% | 13 | 8.2 | 13.6 | 11.0 |
| PLC-1055-3R3S | 3.3 \pm 30% | 18 | 7.2 | 9.6 | 7.0 |
| PLC-1055-4R7S | 4.7 \pm 30% | 21 | 5.8 | 8.7 | 6.6 |
| PLC-1055-5R6S | 5.6 \pm 30% | 24 | 5.7 | 8.3 | 6.5 |
| PLC-1055-6R8S | 6.8 \pm 30% | 26 | 5.1 | 8.2 | 6.1 |
| PLC-1055-8R2S | 8.2 \pm 30% | 33 | 4.7 | 7.4 | 5.5 |
| PLC-1055-100S | 10.0 \pm 20% | 43 | 4.0 | 6.7 | 4.9 |
| PLC-1055-120S | 12.0 \pm 20% | 46 | 3.8 | 5.8 | 4.2 |
| PLC-1055-150S | 15.0 \pm 20% | 50 | 3.5 | 4.9 | 3.5 |
| PLC-1055-180S | 18.0 \pm 20% | 54 | 3.4 | 4.5 | 3.4 |
| PLC-1055-220S | 22.0 \pm 20% | 62 | 3.3 | 4.2 | 3.1 |
| PLC-1055-330S | 33.0 \pm 20% | 110 | 2.7 | 3.1 | 2.3 |

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.

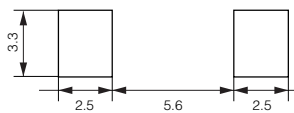
● Operating temperature range : -20to+120°C (including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

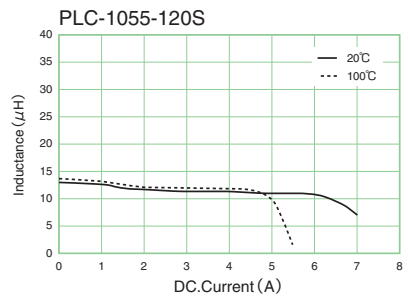
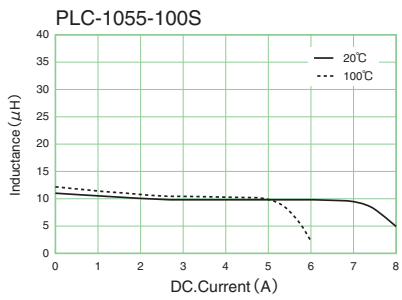
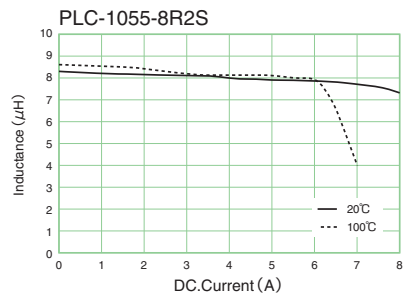
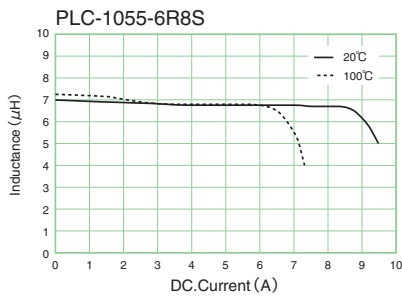
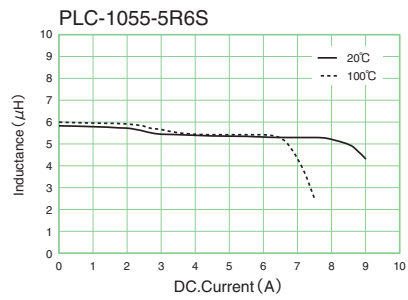
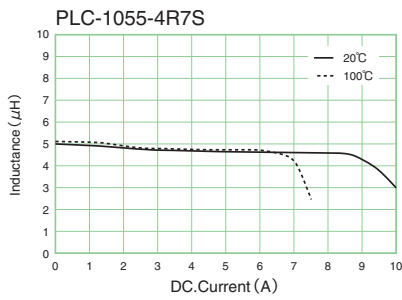
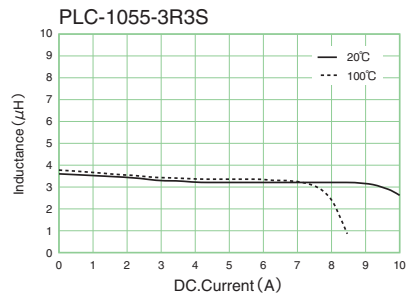
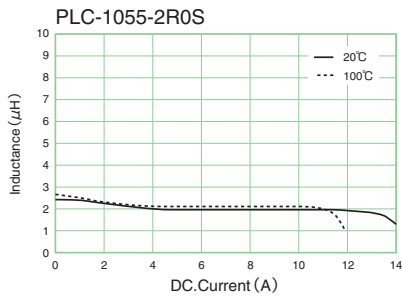


[mm]



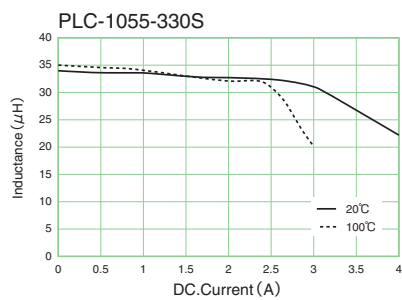
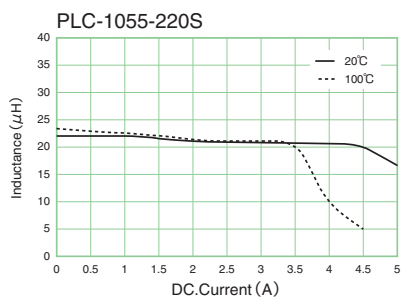
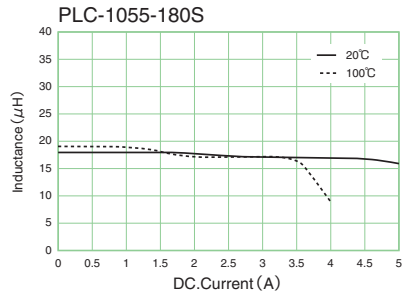
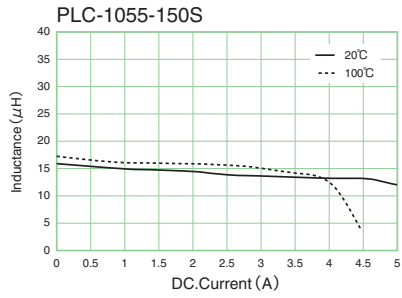
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DC-Superposed Characteristics



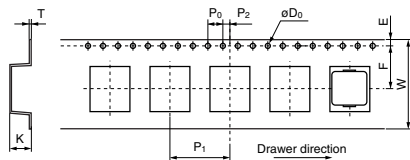
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DC-Superposed Characteristics



PLC-1055 Series

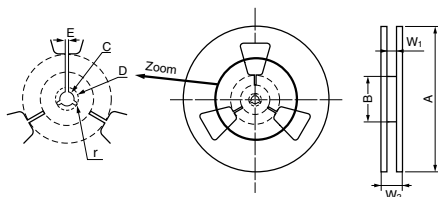
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1055 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.8 |

| | pcs./reel |
|-------------|-----------|
| 1055 Series | 800 |

Reel dimensions



| | A | B | C | D | E | r | W1 | W2 |
|--|-----|-----|-------|-------|-------|------|-------|-------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-1060 Series

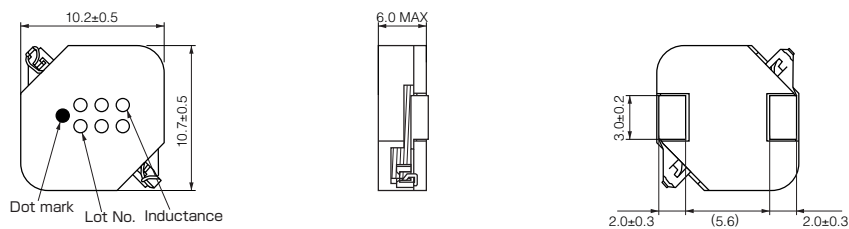
[RoHS Compliant]



| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-1060-2R0S | 2.0 \pm 30% | 16 | 6.7 | 15.7 | 11.9 |
| PLC-1060-3R3S | 3.3 \pm 30% | 19 | 6.2 | 11.2 | 8.0 |
| PLC-1060-4R7S | 4.7 \pm 30% | 22 | 5.7 | 8.8 | 6.7 |
| PLC-1060-5R6S | 5.6 \pm 30% | 24 | 5.5 | 8.4 | 6.6 |
| PLC-1060-6R8S | 6.8 \pm 30% | 27 | 4.8 | 8.3 | 6.2 |
| PLC-1060-8R2S | 8.2 \pm 30% | 34 | 4.6 | 7.5 | 5.6 |
| PLC-1060-100S | 10.0 \pm 20% | 43 | 3.9 | 7.0 | 5.1 |
| PLC-1060-120S | 12.0 \pm 20% | 47 | 3.7 | 5.9 | 4.6 |
| PLC-1060-150S | 15.0 \pm 20% | 51 | 3.5 | 5.4 | 4.2 |
| PLC-1060-180S | 18.0 \pm 20% | 58 | 3.3 | 4.9 | 3.7 |
| PLC-1060-220S | 22.0 \pm 20% | 65 | 3.0 | 4.7 | 3.5 |
| PLC-1060-330S | 33.0 \pm 20% | 96 | 2.3 | 3.9 | 2.9 |

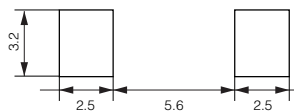
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
 ● Operating temperature range : -20to+120°C (Including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

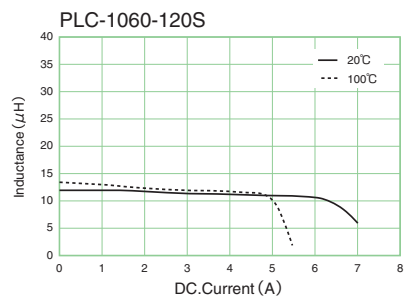
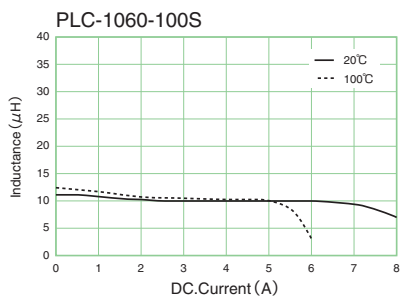
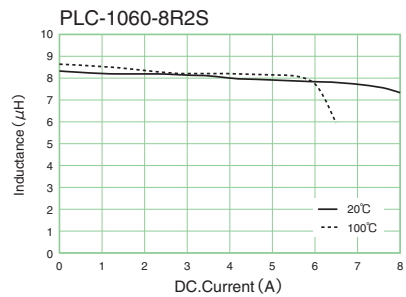
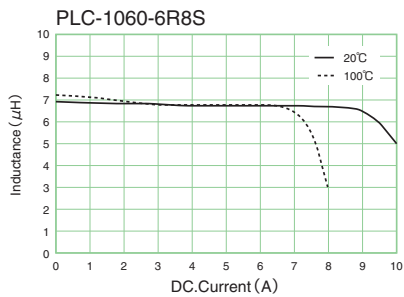
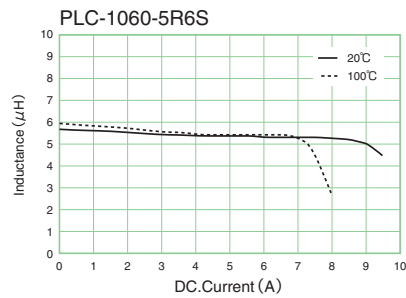
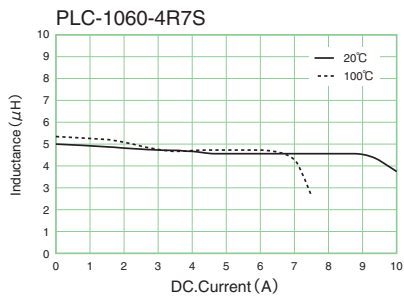
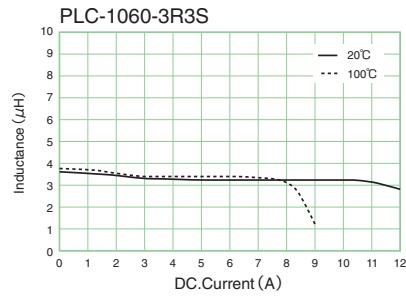
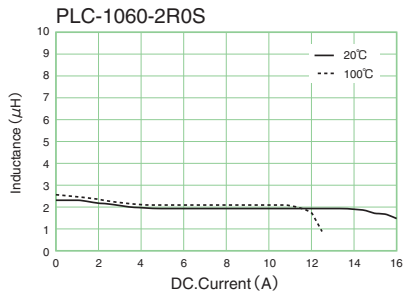


[mm]



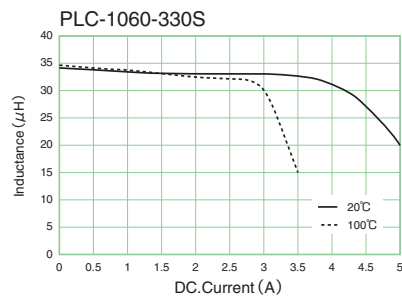
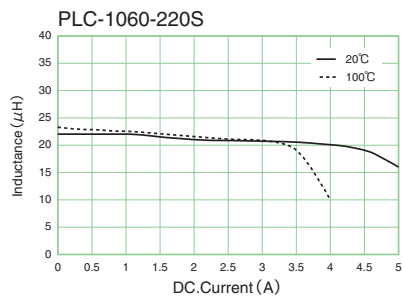
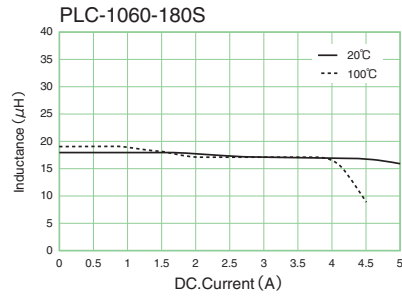
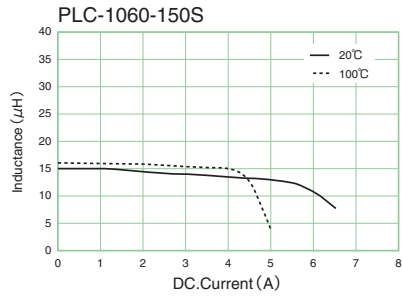
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DC-Superposed Characteristics



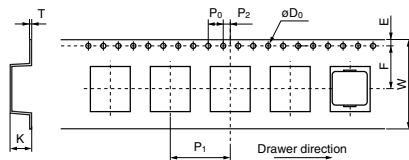
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DC-Superposed Characteristics



PLC-1060 Series

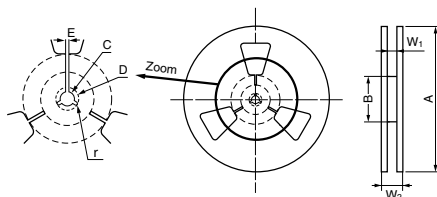
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1060 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 6.3 |

| | pcs./reel |
|-------------|-----------|
| 1060 Series | 800 |

Reel dimensions



| | A | B | C | D | E | r | W ₁ | W ₂ |
|--|-----|-----|-------|-------|-------|------|----------------|----------------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-1235 Series

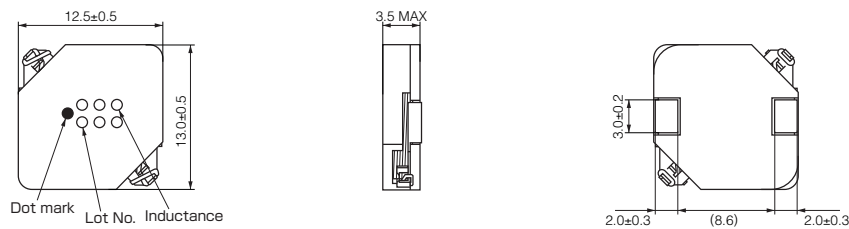
[RoHS Compliant]



| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-1235-2R0S | 2.0 \pm 30% | 15 | 6.7 | 12.3 | 9.1 |
| PLC-1235-3R3S | 3.3 \pm 30% | 19 | 6.0 | 9.6 | 7.1 |
| PLC-1235-4R7S | 4.7 \pm 30% | 27 | 5.4 | 8.5 | 6.5 |
| PLC-1235-5R6S | 5.6 \pm 30% | 35 | 4.5 | 7.7 | 6.0 |
| PLC-1235-6R8S | 6.8 \pm 30% | 39 | 4.3 | 6.7 | 5.1 |
| PLC-1235-8R2S | 8.2 \pm 30% | 53 | 3.6 | 6.2 | 4.6 |
| PLC-1235-100S | 10.0 \pm 20% | 58 | 3.5 | 6.0 | 4.5 |
| PLC-1235-120S | 12.0 \pm 20% | 65 | 3.2 | 5.9 | 4.4 |
| PLC-1235-150S | 15.0 \pm 20% | 77 | 3.1 | 5.4 | 4.0 |
| PLC-1235-180S | 18.0 \pm 20% | 120 | 2.2 | 4.8 | 3.3 |
| PLC-1235-220S | 22.0 \pm 20% | 140 | 2.1 | 4.3 | 3.0 |
| PLC-1235-330S | 33.0 \pm 20% | 170 | 1.8 | 3.3 | 2.5 |

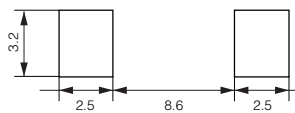
*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
 ● Operating temperature range : -20to+120°C (Including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

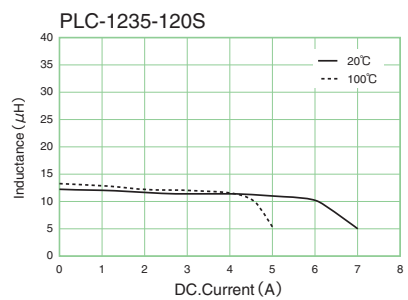
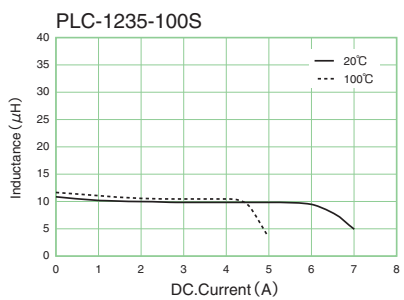
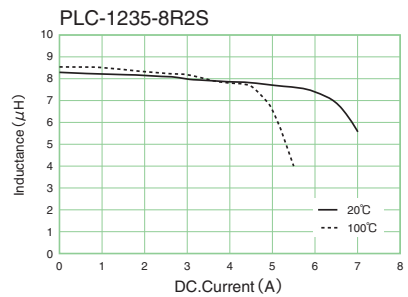
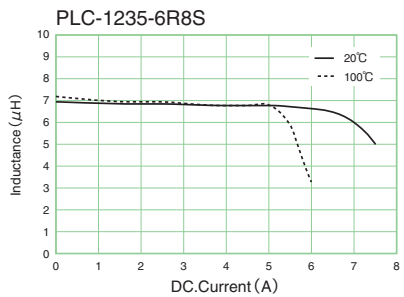
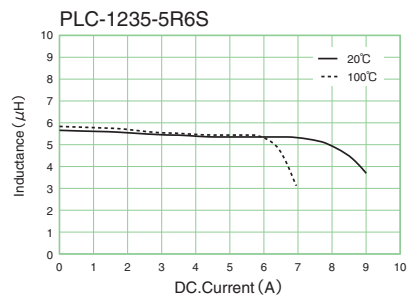
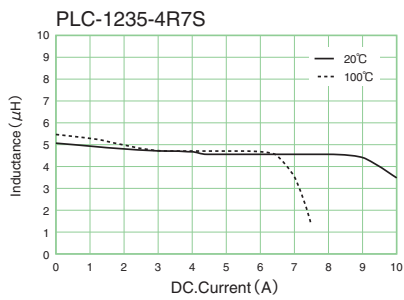
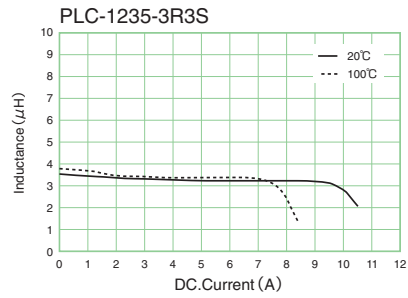
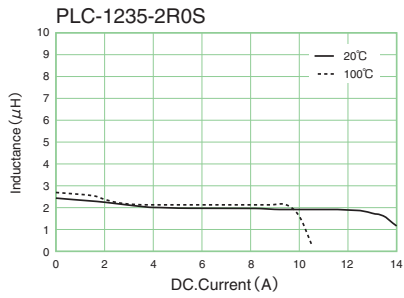


[mm]

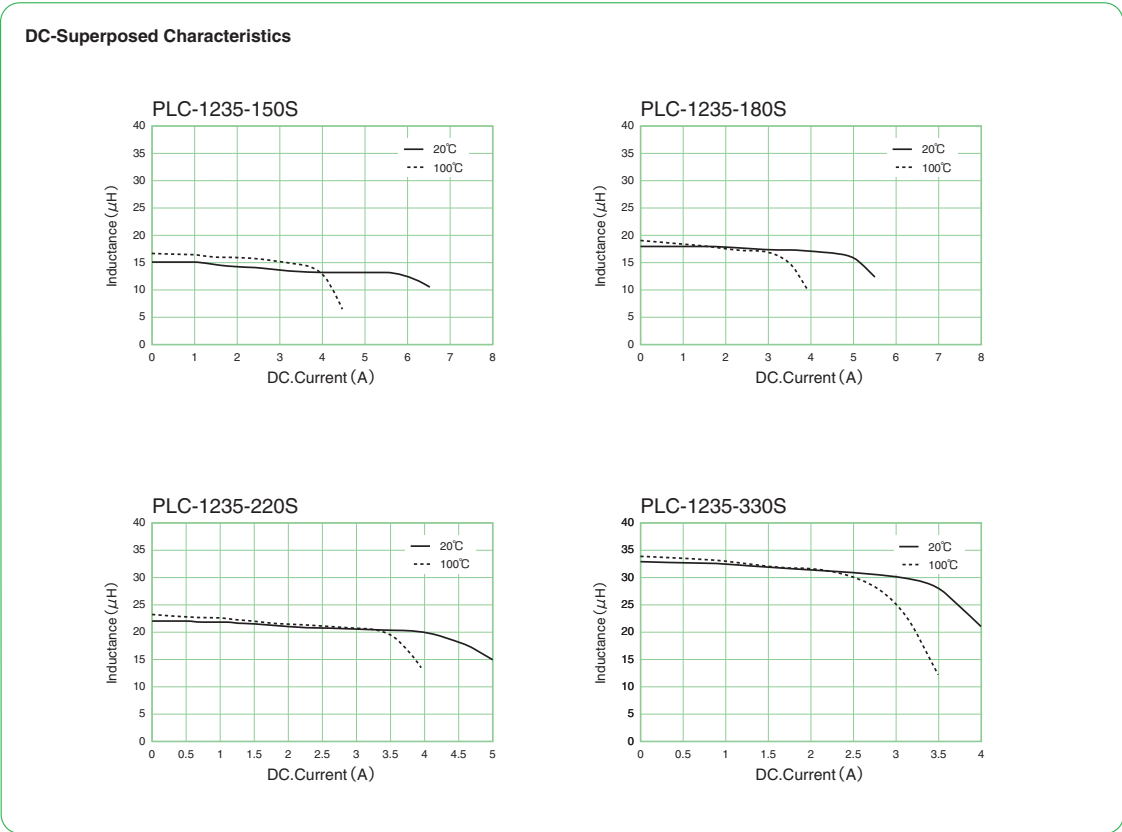


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DC-Superposed Characteristics

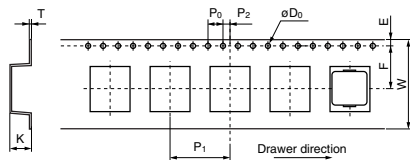


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PLC-1235 Series

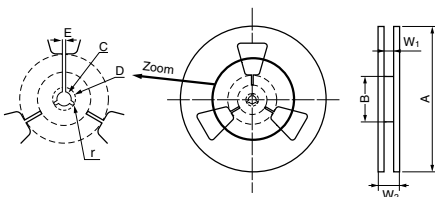
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1235 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 3.8 |

| | pcs./reel |
|-------------|-----------|
| 1235 Series | 700 |

Reel dimensions



| | A | B | C | D | E | r | W1 | W2 |
|--|-----|-----|-------|-------|-------|------|-------|-------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-1245 Series

[RoHS Compliant]

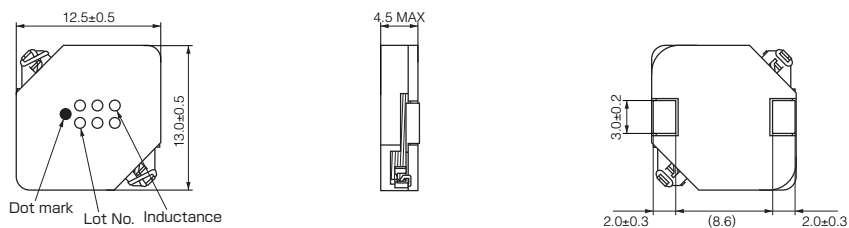


| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | Rated current (A) | | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------------------|----------------------------------------|
| | | | I _{rms} *1 | I _{sat} (Ref.) *2 at 20°C | I _{sat} (Ref.) *2 at 100°C |
| PLC-1245-2R0S | 2.0 \pm 30% | 13 | 7.4 | 12.4 | 9.2 |
| PLC-1245-3R3S | 3.3 \pm 30% | 16 | 6.7 | 9.7 | 7.2 |
| PLC-1245-4R7S | 4.7 \pm 30% | 22 | 6.2 | 8.7 | 6.8 |
| PLC-1245-5R6S | 5.6 \pm 30% | 25 | 6.1 | 8.2 | 6.1 |
| PLC-1245-6R8S | 6.8 \pm 30% | 29 | 5.3 | 7.2 | 5.3 |
| PLC-1245-8R2S | 8.2 \pm 30% | 31 | 5.0 | 6.9 | 5.2 |
| PLC-1245-100S | 10.0 \pm 20% | 38 | 4.7 | 6.3 | 4.5 |
| PLC-1245-120S | 12.0 \pm 20% | 42 | 4.0 | 6.0 | 4.4 |
| PLC-1245-150S | 15.0 \pm 20% | 47 | 3.7 | 5.5 | 4.1 |
| PLC-1245-180S | 18.0 \pm 20% | 49 | 3.5 | 5.1 | 3.4 |
| PLC-1245-220S | 22.0 \pm 20% | 66 | 3.2 | 4.4 | 3.1 |
| PLC-1245-330S | 33.0 \pm 20% | 80 | 2.9 | 3.4 | 2.6 |

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.

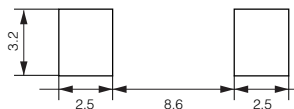
● Operating temperature range : -20to+120°C(Including self-temperature rise)

Shape and Dimensions



[mm]

Recommended Land Pattern

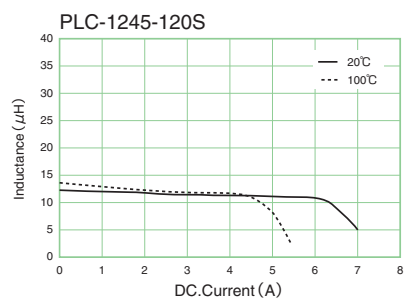
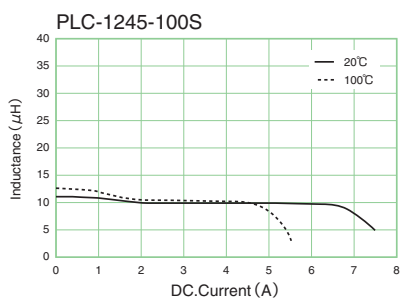
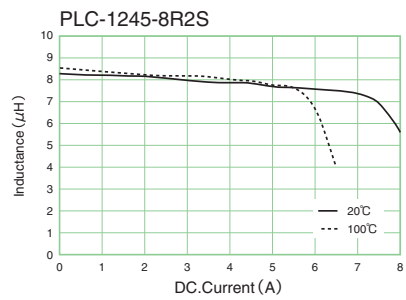
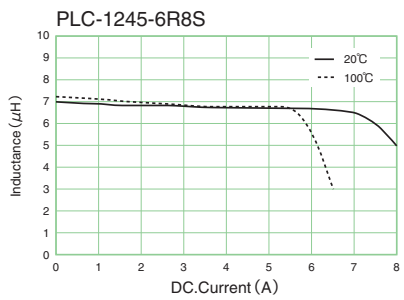
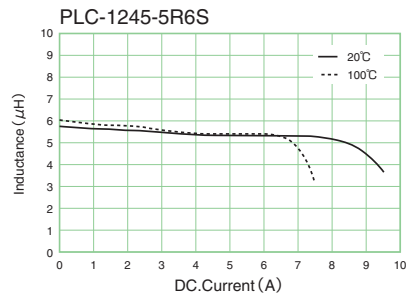
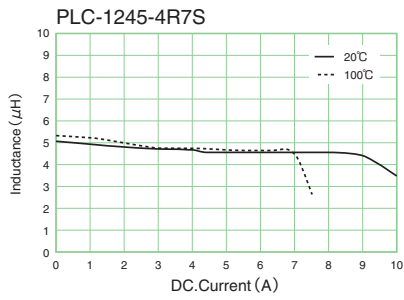
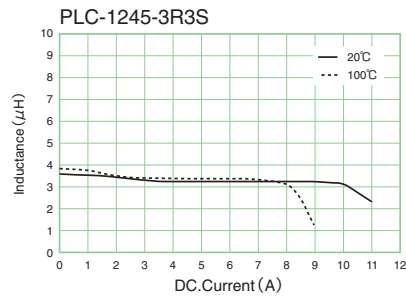
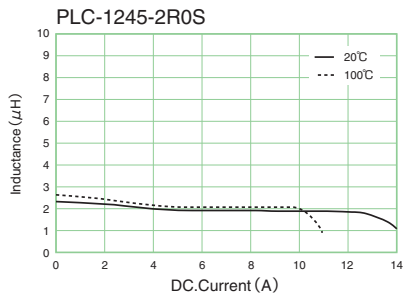


[mm]



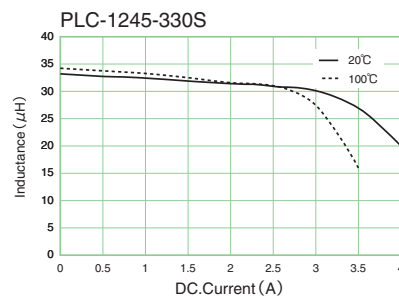
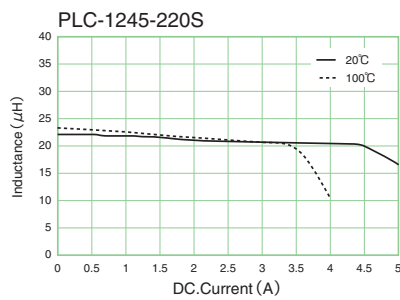
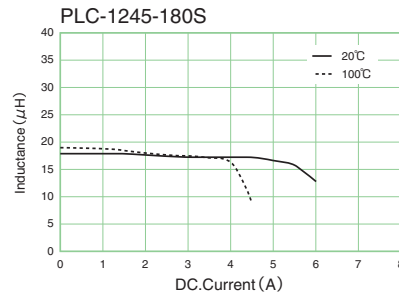
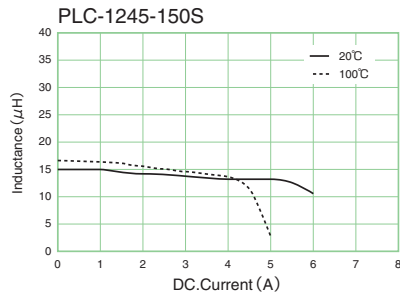
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DC-Superposed Characteristics



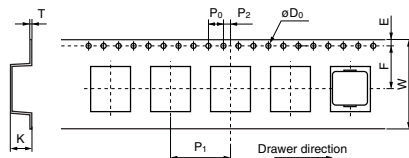
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DC-Superposed Characteristics



PLC-1245 Series

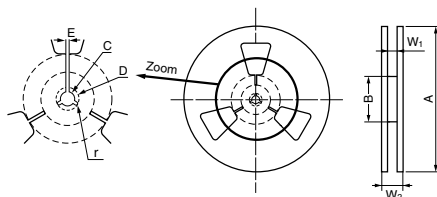
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1245 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 4.8 |

| | pcs./reel |
|-------------|-----------|
| 1245 Series | 700 |

Reel dimensions



| | A | B | C | D | E | r | W1 | W2 |
|--|-----|-----|-------|-------|-------|------|-------|-------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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Leadless Power Inductors PLC-1255 Series

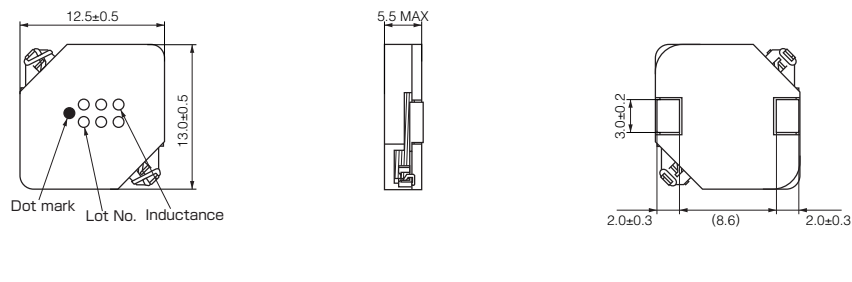
[RoHS Compliant]



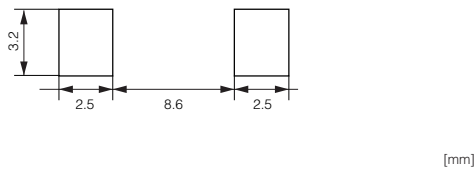
| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance RDC (m Ω) max. | I _{rms} *1 | Rated current (A) | |
|---------------|--------------------------------------------|-----------------------------------------|---------------------|---------------------------|----------|
| | | | | Isat (Ref.) *2 at 20°C | at 100°C |
| PLC-1255-2R0S | 2.0 \pm 30% | 12 | 7.8 | 13.3 | 9.6 |
| PLC-1255-3R3S | 3.3 \pm 30% | 13 | 7.5 | 10.4 | 7.5 |
| PLC-1255-4R7S | 4.7 \pm 30% | 15 | 7.4 | 9.5 | 7.3 |
| PLC-1255-5R6S | 5.6 \pm 30% | 17 | 7.2 | 9.1 | 6.8 |
| PLC-1255-6R8S | 6.8 \pm 30% | 19 | 6.8 | 8.4 | 6.0 |
| PLC-1255-8R2S | 8.2 \pm 30% | 24 | 6.1 | 7.3 | 5.4 |
| PLC-1255-100S | 10.0 \pm 20% | 25 | 5.8 | 6.6 | 4.6 |
| PLC-1255-120S | 12.0 \pm 20% | 27 | 5.2 | 6.3 | 4.5 |
| PLC-1255-150S | 15.0 \pm 20% | 38 | 4.4 | 5.8 | 4.2 |
| PLC-1255-180S | 18.0 \pm 20% | 44 | 4.2 | 5.7 | 4.1 |
| PLC-1255-220S | 22.0 \pm 20% | 47 | 3.9 | 4.6 | 3.4 |
| PLC-1255-330S | 33.0 \pm 20% | 70 | 3.4 | 4.0 | 2.9 |

*1 T=40K rise at rated current. *2 Inductance drop 30% at rated current.
 ● Operating temperature range : -20to+120°C (Including self-temperature rise)

Shape and Dimensions

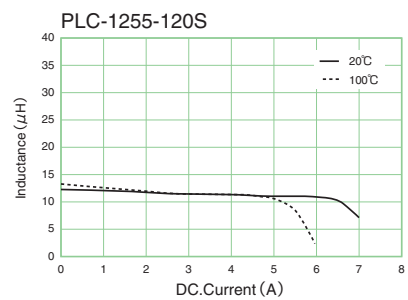
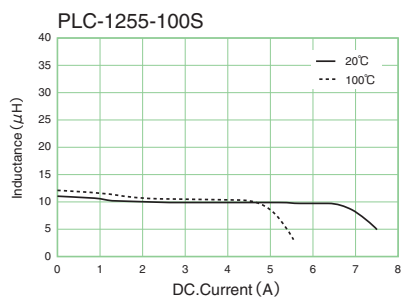
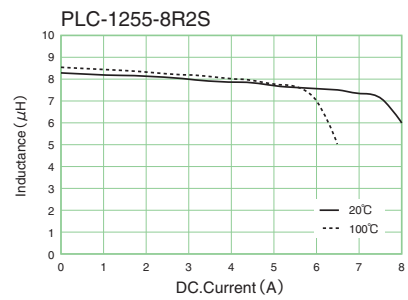
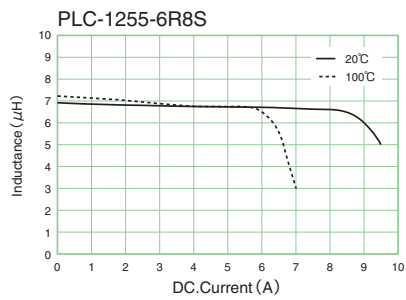
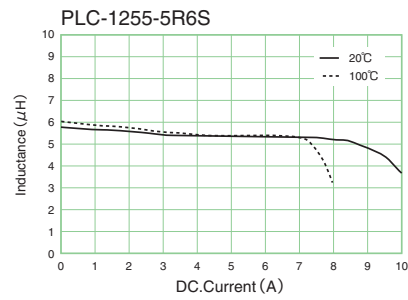
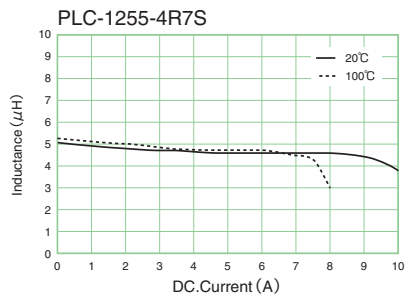
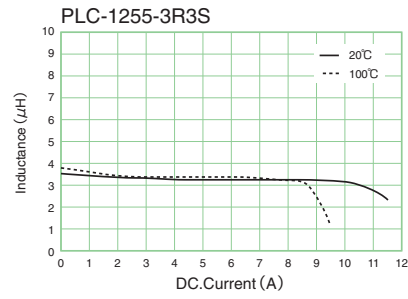
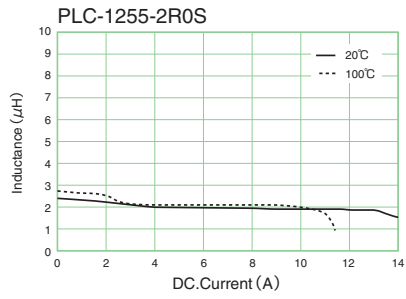


Recommended Land Pattern



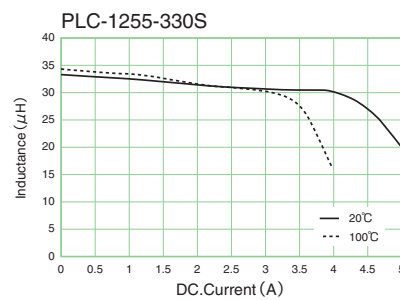
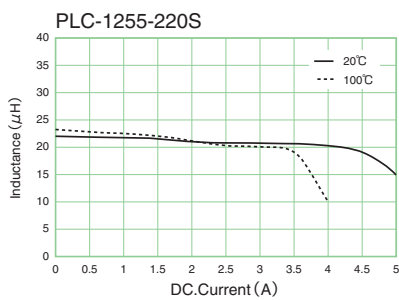
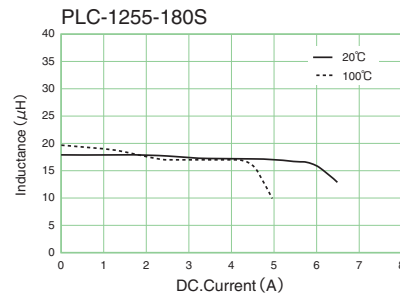
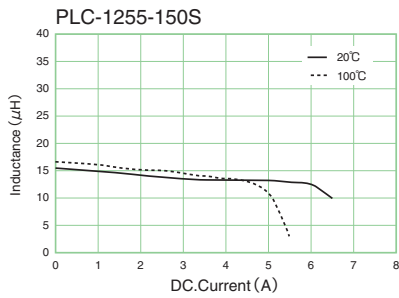
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

DC-Superposed Characteristics



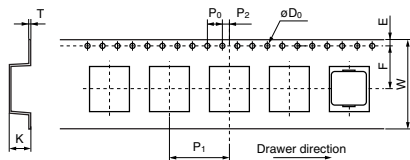
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
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- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

DC-Superposed Characteristics



PLC-1255 Series

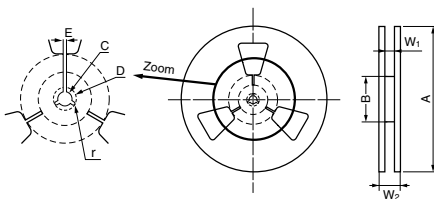
Dimensions of indented square hole plastic tape



| | W | F | E | P1 | P2 | P0 | øD0 | T | K |
|-------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.05 | ± 0.1 |
| 1255 Series | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | 1.55 | 0.4 | 5.8 |

| | pcs./reel |
|-------------|-----------|
| 1255 Series | 700 |

Reel dimensions



| | A | B | C | D | E | r | W1 | W2 |
|--|-----|-----|-------|-------|-------|------|-------|-------|
| | ± 5 | ± 5 | ± 0.5 | ± 0.8 | ± 0.5 | | ± 0.5 | ± 0.5 |
| | 380 | 80 | 13.5 | 21.0 | 2.0 | R1.0 | 25.5 | 29.5 |



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- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Leadless Power Inductors P·I Series

〈Applicable for Automotives〉



• Precautions (see page 82)

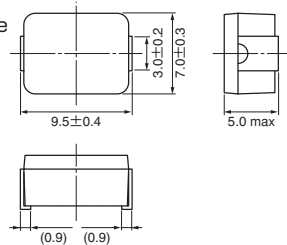
●P·I Series

| Type | Model | Inductance (μ H) at 100kHz | DC resistance (Ω) max. | Rated current (A) |
|-------------------------------|------------|------------------------------------|------------------------------------|----------------------|
| Choke coil (9×7×5) | P·I-470LSF | 47±25% | 0.46 | 0.7 |
| | P·I-220LSF | 22±25% | 0.30 | 0.9 |
| | P·I-120LSF | 12±25% | 0.20 | 1.0 |
| | P·I-5R6LSF | 5.6±30% | 0.10 | 1.6 |
| | P·I-3R3LSF | 3.3±30% | 0.08 | 2.0 |
| Choke coil (12×10×6) | P·I-221LMF | 220±25% | 1.25 | 0.5 |
| | P·I-151LMF | 150±25% | 0.95 | 0.6 |
| | P·I-121LMF | 125±25% | 0.60 | 0.8 |
| | P·I-680LMF | 68±25% | 0.45 | 0.8 |
| | P·I-330LMF | 33±25% | 0.30 | 1.0 |
| | P·I-180LMF | 18±25% | 0.15 | 1.7 |
| | P·I-8R2LMF | 8.2±30% | 0.10 | 2.3 |
| | P·I-820ZSF | 82±25% | 0.48 | 0.6 |
| | P·I-470ZSF | 47±25% | 0.30 | 0.7 |
| Noise suppressor (9×7×5) | P·I-390ZSF | 39±25% | 0.31 | 0.8 |
| | P·I-180ZSF | 18±25% | 0.20 | 1.0 |
| | P·I-100ZSF | 10±25% | 0.12 | 1.5 |
| | P·I-4R7ZSF | 4.7±30% | 0.08 | 2.0 |
| | P·I-1R2ZSF | 1.2±30% | 0.05 | 3.0 |
| | P·I-331ZMF | 330±25% | 1.40 | 0.5 |
| Noise suppressor (12×10×6) | P·I-181ZMF | 180±25% | 0.85 | 0.6 |
| | P·I-121ZMF | 120±25% | 0.48 | 0.8 |
| | P·I-560ZMF | 56±25% | 0.35 | 1.0 |
| | P·I-270ZMF | 27±25% | 0.15 | 1.7 |
| | P·I-150ZMF | 15±25% | 0.10 | 2.2 |
| | P·I-2R7ZMF | 2.7±30% | 0.07 | 2.9 |

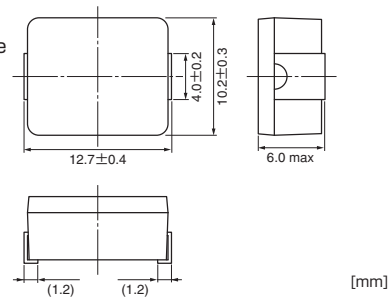
●Operating temperature range: -40 to +120°C (Including self-temperature rise)

Shape and Dimensions

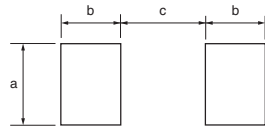
●S Type



●M Type



Recommended Land Pattern



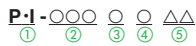
| Type | a | b | c |
|------|-----|-----|-----|
| S | 5.0 | 5.0 | 6.0 |
| M | 6.0 | 5.0 | 9.0 |

[mm]



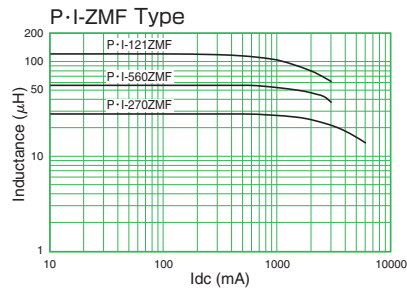
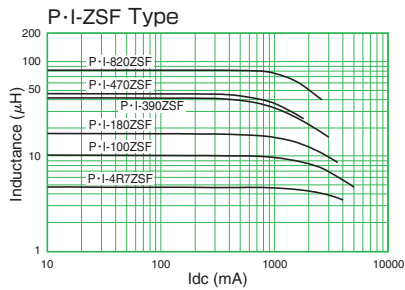
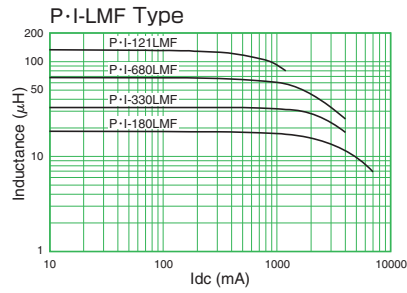
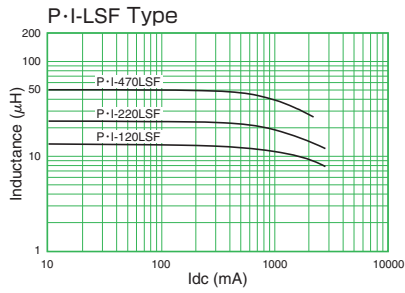
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Numbering System



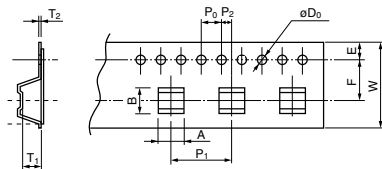
- ① Series
- ② Inductance 120:12μH, 121:120μH, 4R7:4.7μH
- ③ Type L : Choke Coils, Z : Noise suppressor
- ④ Dimensions
- ⑤ NEC TOKIN control number

DC-Superposed Characteristics



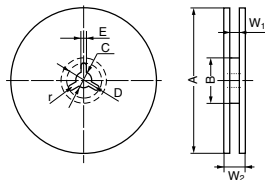
P-I-S Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|------|-------|------|------|------|----------------|----------------|----------------|-----------------|----------------|----------------|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T ₁ | T ₂ |
| ±0.2 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.05 |
| 8.2 | 10.05 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | 1.55 | 4.7 | 0.38 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 16 | 25 |



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Leadless Power Inductors P·H Series



• Precautions (see page 82)

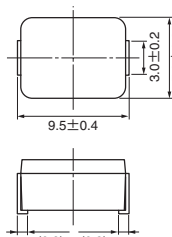
●P·H Series

| Type | Model | Inductance (μH) at 100kHz | DC resistance (Ω) max. | Rated current (A) |
|-------------------------|------------|----------------------------------------|---------------------------------|-------------------|
| Choke coil (9×7×5) | P·H-121LSF | 120±25% | 0.80 | 0.5 |
| | P·H-111LSF | 110±30% | 0.60 | 0.7 |
| | P·H-151LMF | 150±25% | 0.55 | 0.7 |
| Choke coil (12×10×6) | P·H-121LMF | 120±25% | 0.45 | 0.9 |
| | P·H-900LMF | 90±25% | 0.40 | 1.0 |
| | P·H-820LMF | 82±25% | 0.34 | 1.2 |

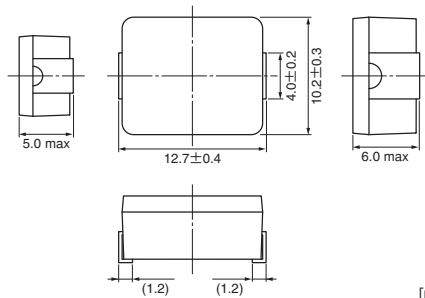
●Storage temperature range: -40 to +105°C

Shape and Dimensions

●S Type

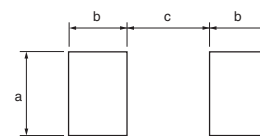


●M Type



[mm]

Recommended Land Pattern



| a | b | c |
|-----|-----|-----|
| 6.0 | 5.0 | 9.0 |

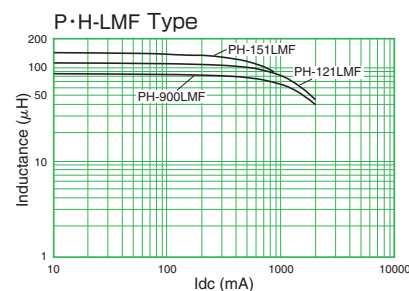
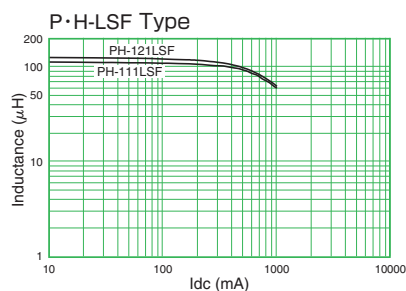
[mm]

Numbering System

P·H - ①②③④⑤

- ① Series
- ② Inductance 121:120 μH
- ③ Type L : Choke Coil
- ④ Dimensions
- ⑤ NEC TOKIN control number

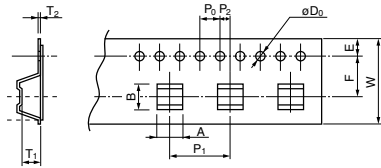
DC-Superposed Characteristics



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- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

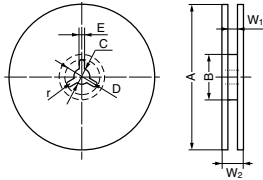
P-I-M/P-H-LM Series (700pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|-----------------|----------------|----------------|--|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | øD ₀ | T ₁ | T ₂ | |
| ±0.1 | ±0.1 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.1 | ±0.05 | |
| 10.7 | 13.3 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | 1.55 | 6.0 | 0.4 | |

Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±0.8 | ±0.5 | | | |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 24.4 | 30.4 |



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SN-S3M Series

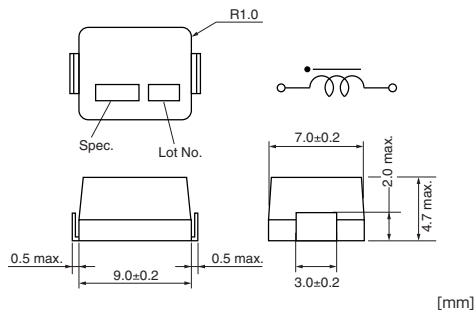
[RoHS Compliant]



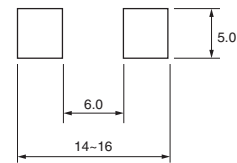
• Precautions (see page 82)

| Model | Rated current (A) | Inductance (μ H) | DC resistance (m Ω) max. | Operation temperature range ($^{\circ}$ C) | Packaging |
|---------------|-------------------|-----------------------|----------------------------------|---------------------------------------------|---------------------------|
| SN-S3M-0523T | 0.5 | 23.0 min. | 350 | -20~+85 | Taping (1 000 pcs./ reel) |
| SN-S3M-1010T | 1.0 | 10 \pm 20% | 80 | -20~+85 | |
| SN-S3M-1006AT | 1.0 | 6.0 min. | 80 | -20~+85 | |
| SN-S3M-2005T | 2.0 | 5.0 min. | 40 | -20~+85 | |
| SN-S3M-20R8T | 2.0 | 0.8 min. | 20 | -20~+85 | |

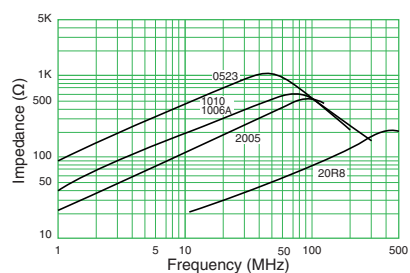
Shape and Dimensions



Recommended Land Pattern



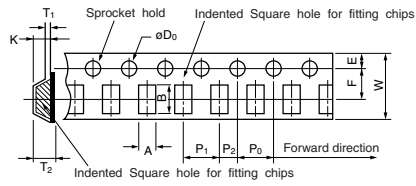
Impedance vs. Frequency



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- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

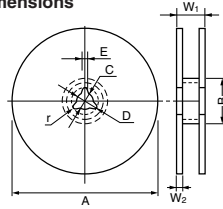
SN-S3M Series (In contormity to EIAJ RC-1009) (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | | | |
|------|------|------|------|------|----------------|----------------|----------------|----------------|----------------|----------------|------|--|
| A | B | W | F | E | P ₁ | P ₂ | P ₀ | D ₀ | T ₁ | T ₂ | K | |
| ±0.3 | ±0.3 | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | +0.1,-0 | max. | max. | max. | |
| 7.4 | 10.5 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | 1.5 | 0.6 | 6.5 | 6.4 | |

Reel dimensions



| [mm] | | | | | | | |
|------|-----|------|------|------|---|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| — | — | ±0.5 | ±1.0 | ±0.5 | — | +2.0-0 | ±0.5 |
| ø330 | ø80 | ø13 | ø21 | 2.0 | 0 | 12.4 | 1.5 |



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Leadless Power Inductors

H·DI-0520 Series

[RoHS Compliant]

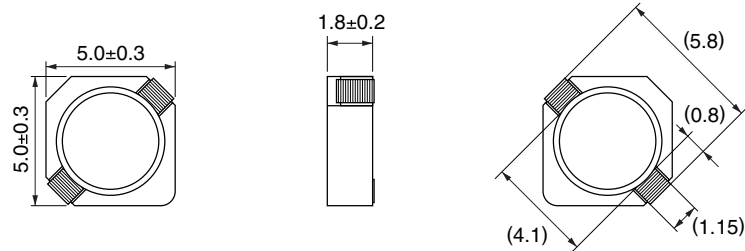


●H·DI-0520 Series

| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance (Ω) max. | Rated current (A) |
|---------------|--------------------------------------------|------------------------------------|----------------------|
| H·DI-0520-1R2 | 1.2 \pm 30% | 0.035 | 3.40 |
| H·DI-0520-2R2 | 2.2 \pm 30% | 0.048 | 2.60 |
| H·DI-0520-3R3 | 3.3 \pm 30% | 0.062 | 2.00 |
| H·DI-0520-4R7 | 4.7 \pm 30% | 0.09 | 1.80 |
| H·DI-0520-6R8 | 6.8 \pm 30% | 0.14 | 1.40 |
| H·DI-0520-100 | 10 \pm 20% | 0.16 | 0.90 |
| H·DI-0520-150 | 15 \pm 20% | 0.26 | 0.70 |
| H·DI-0520-220 | 22 \pm 20% | 0.32 | 0.60 |
| H·DI-0520-330 | 33 \pm 20% | 0.54 | 0.40 |
| H·DI-0520-470 | 47 \pm 20% | 0.64 | 0.40 |
| H·DI-0520-680 | 68 \pm 20% | 1.07 | 0.30 |
| H·DI-0520-101 | 100 \pm 20% | 1.87 | 0.20 |

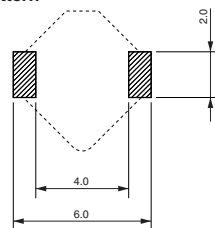
●Operating temperature range: -20 to $+105^{\circ}\text{C}$ (Including self-temperature rise)

Shape and Dimensions



[mm]

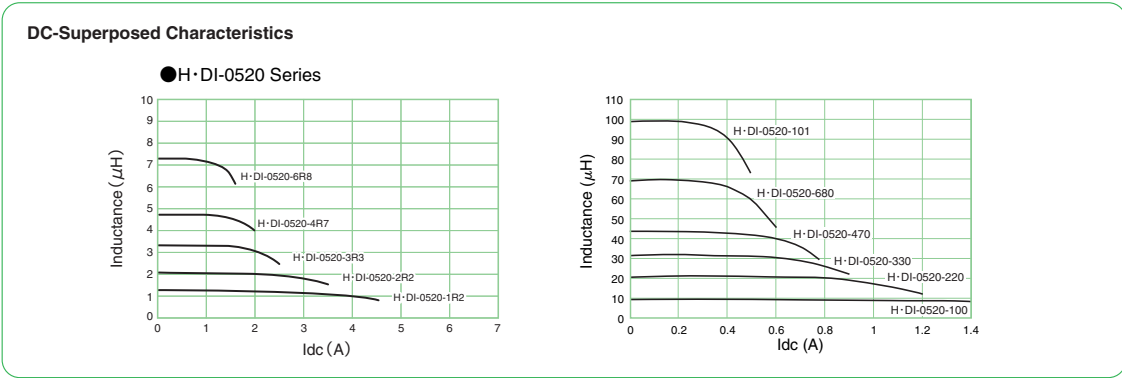
Recommended Land Pattern



[mm]

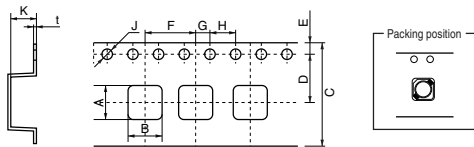


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- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.



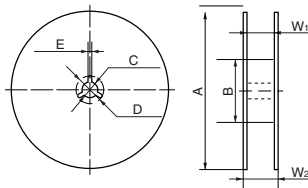
H·DI-0520 Series (2000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, -0 | ± 0.1 | ± 0.05 |
| 5.4 | 5.4 | 12.0 | 5.5 | 1.75 | 8.0 | 2.0 | 4.0 | ∅1.5 | 2.2 | 0.4 |

Reel dimensions



| [mm] | | | | | | |
|------|-----|-------|-------|------|----------------|----------------|
| A | B | C | D | E | W ₁ | W ₂ |
| | | ±0.5 | ±1.0 | ±0.5 | +2.0, -0 | ±2.0 |
| ∅330 | ∅80 | ∅13.0 | ∅21.0 | 2.0 | 12.5 | 16.5 |



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Leadless Power Inductors

H·DI-0630 Series

[RoHS Compliant]

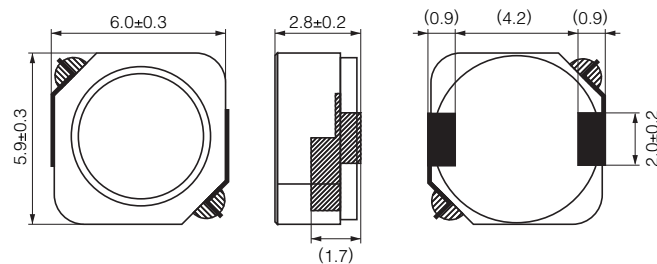


●H·DI-0630 Series

| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance (m Ω) max. | Rated current (A) |
|---------------|--------------------------------------------|-------------------------------------|----------------------|
| H·DI-0630-1R3 | 1.3 \pm 30% | 22 | 2.70 |
| H·DI-0630-2R4 | 2.4 \pm 30% | 28 | 2.50 |
| H·DI-0630-3R8 | 3.8 \pm 30% | 40 | 2.00 |
| H·DI-0630-4R7 | 4.7 \pm 30% | 43 | 1.90 |
| H·DI-0630-6R8 | 6.8 \pm 30% | 53 | 1.60 |
| H·DI-0630-100 | 10 \pm 20% | 67 | 1.20 |
| H·DI-0630-150 | 15 \pm 20% | 110 | 1.10 |
| H·DI-0630-220 | 22 \pm 20% | 170 | 0.85 |
| H·DI-0630-330 | 33 \pm 20% | 240 | 0.70 |
| H·DI-0630-470 | 47 \pm 20% | 350 | 0.60 |
| H·DI-0630-680 | 68 \pm 20% | 500 | 0.50 |
| H·DI-0630-101 | 100 \pm 20% | 680 | 0.45 |

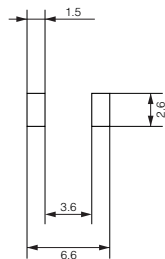
●Operating temperature range: -20 to +105°C (Including self-temperature rise)

Shape and Dimensions



[mm]

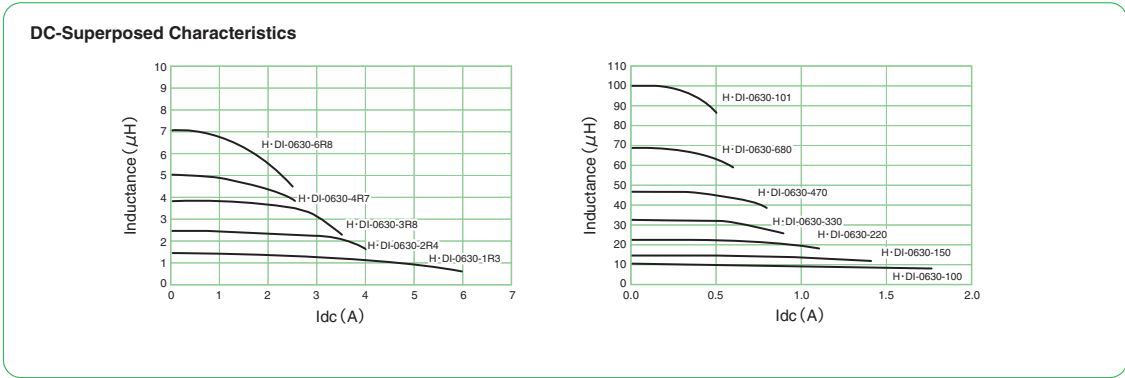
Recommended Land Pattern



[mm]

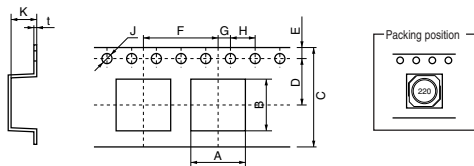


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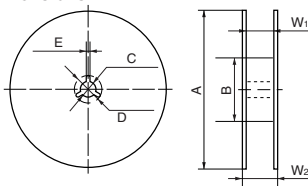
H•DI-0630 Series (2000pcs./reel)

Dimensions of indented square hole plastic tape



| A | B | C | D | E | F | G | H | J | K | t |
|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, -0 | ± 0.1 | ± 0.05 |
| 6.3 | 6.3 | 12.0 | 5.5 | 1.75 | 8.0 | 2.0 | 4.0 | ∅1.5 | 3.2 | 0.4 |

Reel dimensions



| A | B | C | D | E | W ₁ | W ₂ |
|------|-----|-------|-------|-------|----------------|----------------|
| | | ± 0.5 | ± 1.0 | ± 0.5 | +2.0, -0 | ± 2.0 |
| ∅330 | ∅80 | ∅13.0 | ∅21.0 | 2.0 | 12.5 | 16.5 |



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Leadless Power Inductors H·DI-0740 Series

[RoHS Compliant]

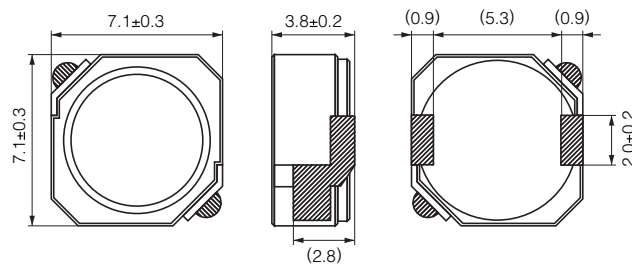


●H·DI-0740 Series

| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance (m Ω) max. | Rated current (A) |
|---------------|--------------------------------------------|-------------------------------------|----------------------|
| H·DI-0740-1R2 | 1.2 \pm 30% | 14 | 4.50 |
| H·DI-0740-2R2 | 2.2 \pm 30% | 20 | 4.00 |
| H·DI-0740-3R0 | 3.0 \pm 30% | 22 | 3.00 |
| H·DI-0740-4R7 | 4.7 \pm 30% | 29 | 2.50 |
| H·DI-0740-6R8 | 6.8 \pm 30% | 37 | 1.70 |
| H·DI-0740-100 | 10 \pm 25% | 47 | 1.40 |
| H·DI-0740-150 | 15 \pm 25% | 60 | 1.20 |
| H·DI-0740-220 | 22 \pm 25% | 83 | 0.90 |
| H·DI-0740-330 | 33 \pm 25% | 140 | 0.80 |
| H·DI-0740-470 | 47 \pm 25% | 160 | 0.70 |
| H·DI-0740-680 | 68 \pm 25% | 230 | 0.65 |
| H·DI-0740-101 | 100 \pm 25% | 350 | 0.50 |

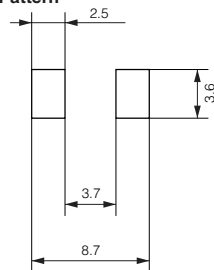
●Operating temperature range: -20 to +105°C (Including self-temperature rise)

Shape and Dimensions



[mm]

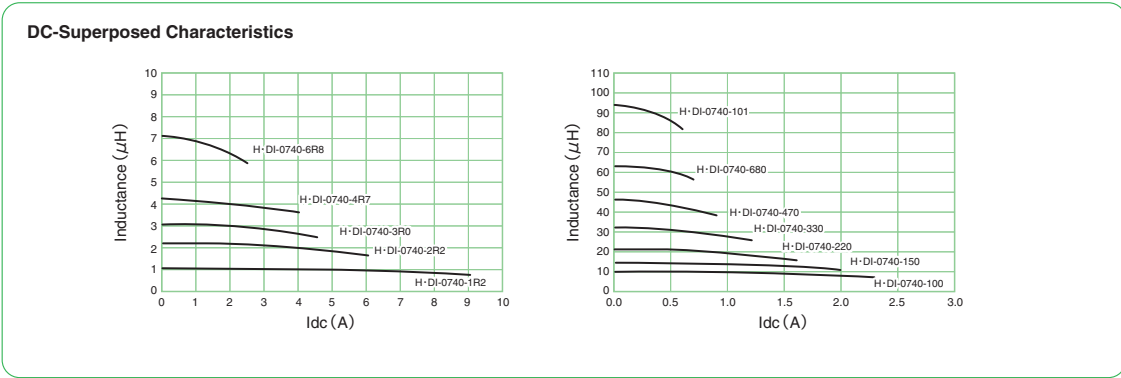
Recommended Land Pattern



[mm]

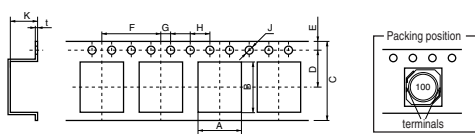


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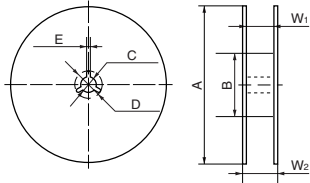
H•DI-0740 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, -0 | ± 0.1 | ± 0.05 |
| 7.4 | 7.4 | 16.0 | 7.5 | 1.75 | 12.0 | 2.0 | 4.0 | ∅1.5 | 4.2 | 0.4 |

Reel dimensions



| [mm] | | | | | | |
|------|-----|-------|-------|-------|----------------|----------------|
| A | B | C | D | E | W ₁ | W ₂ |
| | | ± 0.5 | ± 1.0 | ± 0.5 | +2.0, -0 | ± 2.0 |
| ∅330 | ∅80 | ∅13.0 | ∅21.0 | 2.0 | 16.5 | 20.5 |



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Leadless Power Inductors

H·DI-0940 Series

[RoHS Compliant]

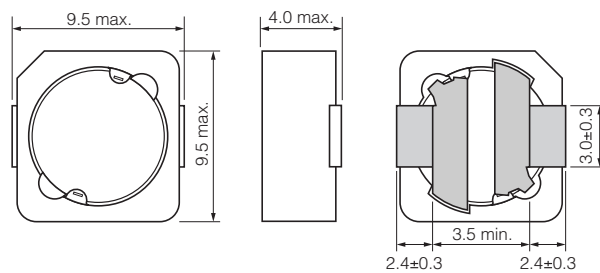


●H·DI-0940 Series

| Model | Inductance at 10kHz, 1mA (μ H) | DC resistance (Ω) max. | Rated current (A) |
|---------------|-------------------------------------|---------------------------------|-------------------|
| H·DI-0940-6R8 | 6.8 \pm 25% | 0.045 | 3.40 |
| H·DI-0940-100 | 10 \pm 25% | 0.053 | 2.80 |
| H·DI-0940-150 | 15 \pm 25% | 0.08 | 2.30 |
| H·DI-0940-220 | 22 \pm 25% | 0.12 | 1.90 |
| H·DI-0940-330 | 33 \pm 25% | 0.17 | 1.50 |
| H·DI-0940-470 | 47 \pm 20% | 0.23 | 1.30 |
| H·DI-0940-680 | 68 \pm 20% | 0.30 | 1.10 |
| H·DI-0940-101 | 100 \pm 20% | 0.43 | 0.88 |
| H·DI-0940-151 | 150 \pm 20% | 0.70 | 0.72 |
| H·DI-0940-221 | 220 \pm 20% | 1.0 | 0.59 |
| H·DI-0940-331 | 330 \pm 20% | 1.5 | 0.48 |
| H·DI-0940-471 | 470 \pm 20% | 2.3 | 0.41 |
| H·DI-0940-681 | 680 \pm 20% | 3.7 | 0.34 |
| H·DI-0940-102 | 1000 \pm 20% | 4.6 | 0.28 |

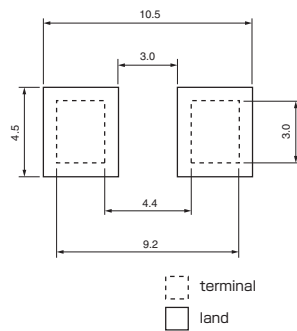
●Operating temperature range: -20 to +105°C (Including self-temperature rise)

Shape and Dimensions



[mm]

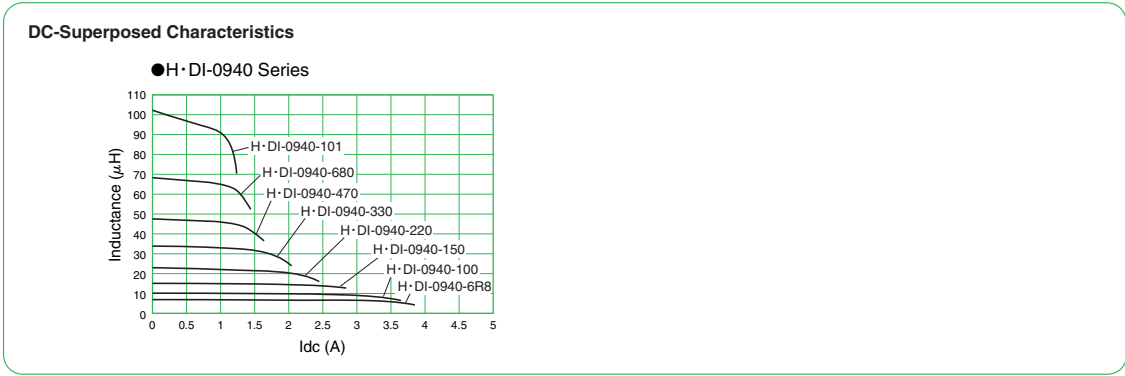
Recommended Land Pattern



[mm]

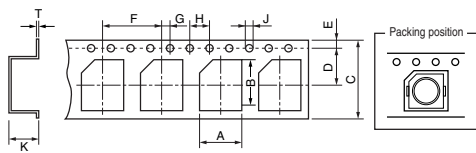


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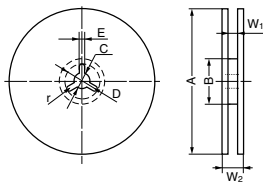
H·DI-0940 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|--------|-------|----------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1, -0 | ± 0.1 | ± 0.05 |
| 9.7 | 9.7 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | ∅1.5 | 4.5 | 0.4 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | +2.0, -0 | ±1.0 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 16.5 | 19.5 |



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Leadless Power Inductors H·DI-1040 Series

[RoHS Compliant]

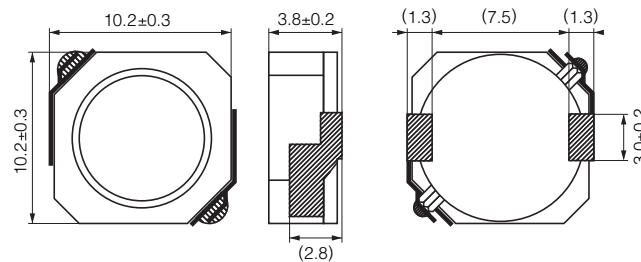


●H·DI-1040 Series

| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance (m Ω) max. | Rated current (A) |
|---------------|--------------------------------------------|-------------------------------------|----------------------|
| H·DI-1040-1R5 | 1.5 \pm 30% | 12 | 7.3 |
| H·DI-1040-2R0 | 2.0 \pm 30% | 16 | 6.4 |
| H·DI-1040-3R0 | 3.0 \pm 30% | 17 | 5.8 |
| H·DI-1040-4R2 | 4.2 \pm 30% | 21 | 5.4 |
| H·DI-1040-5R6 | 5.6 \pm 30% | 25 | 5.0 |
| H·DI-1040-7R5 | 7.5 \pm 30% | 27 | 4.7 |
| H·DI-1040-100 | 10 \pm 30% | 35 | 3.9 |
| H·DI-1040-150 | 15 \pm 20% | 52 | 3.4 |
| H·DI-1040-220 | 22 \pm 20% | 63 | 2.9 |
| H·DI-1040-330 | 33 \pm 20% | 100 | 2.4 |
| H·DI-1040-470 | 47 \pm 20% | 140 | 1.9 |
| H·DI-1040-680 | 68 \pm 20% | 220 | 1.6 |
| H·DI-1040-101 | 100 \pm 20% | 300 | 1.3 |

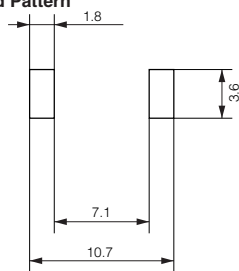
●Operating temperature range: -20 to +105°C (Including self-temperature rise)

Shape and Dimensions



[mm]

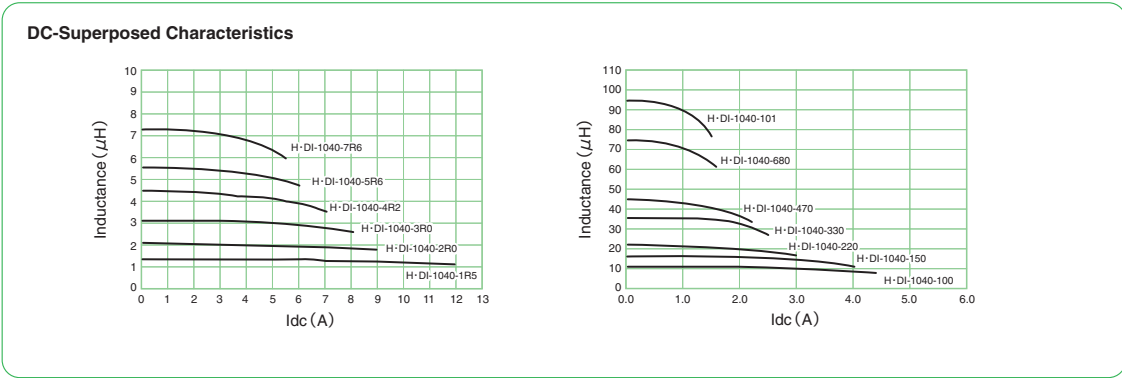
Recommended Land Pattern



[mm]

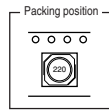
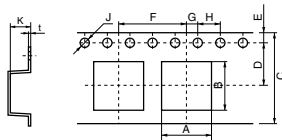


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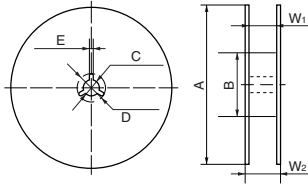
H•DI-1040 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, -0 | ± 0.1 | ± 0.05 |
| 10.6 | 10.6 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | ∅1.5 | 4.2 | 0.4 |

Reel dimensions



| [mm] | | | | | | |
|------|-----|-------|-------|------|----------------|----------------|
| A | B | C | D | E | W ₁ | W ₂ |
| | | ±0.5 | ±1.0 | ±0.5 | +2.0, -0 | ±2.0 |
| ∅380 | ∅80 | ∅13.0 | ∅21.0 | 2.0 | 24.4 | 28.4 |



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Leadless Power Inductors

H·DI-1240 Series

[RoHS Compliant]

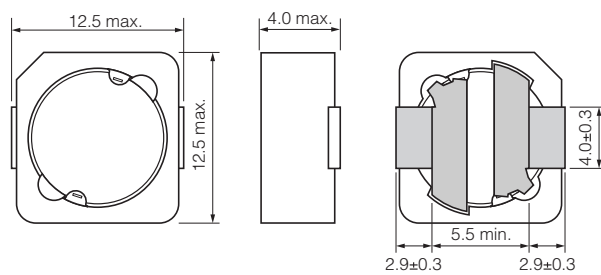


●H·DI-1240 Series

| Model | Inductance at 10kHz, 1mA (μ H) | DC resistance (Ω) max. | Rated current (A) |
|---------------|-------------------------------------|---------------------------------|-------------------|
| H·DI-1240-2R2 | 2.2 \pm 25% | 0.017 | 5.10 |
| H·DI-1240-3R3 | 3.3 \pm 25% | 0.023 | 4.60 |
| H·DI-1240-4R7 | 4.7 \pm 25% | 0.026 | 4.30 |
| H·DI-1240-6R8 | 6.8 \pm 25% | 0.033 | 3.90 |
| H·DI-1240-100 | 10 \pm 25% | 0.039 | 3.50 |
| H·DI-1240-150 | 15 \pm 25% | 0.060 | 2.90 |
| H·DI-1240-220 | 22 \pm 25% | 0.075 | 2.40 |
| H·DI-1240-330 | 33 \pm 25% | 0.12 | 1.90 |
| H·DI-1240-470 | 47 \pm 20% | 0.18 | 1.60 |
| H·DI-1240-680 | 68 \pm 20% | 0.24 | 1.40 |
| H·DI-1240-101 | 100 \pm 20% | 0.30 | 1.10 |
| H·DI-1240-151 | 150 \pm 20% | 0.50 | 0.90 |
| H·DI-1240-221 | 220 \pm 20% | 0.74 | 0.75 |
| H·DI-1240-331 | 330 \pm 20% | 1.1 | 0.60 |
| H·DI-1240-471 | 470 \pm 20% | 1.6 | 0.50 |
| H·DI-1240-681 | 680 \pm 20% | 2.5 | 0.40 |
| H·DI-1240-102 | 1000 \pm 20% | 3.7 | 0.35 |

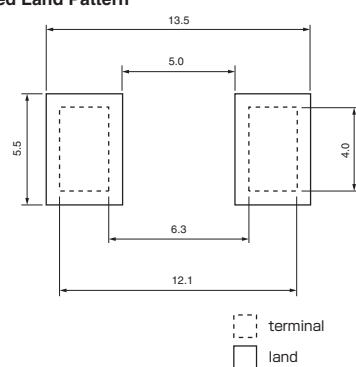
●Operating temperature range: -20 to +105°C (Including self-temperature rise)

Shape and Dimensions



[mm]

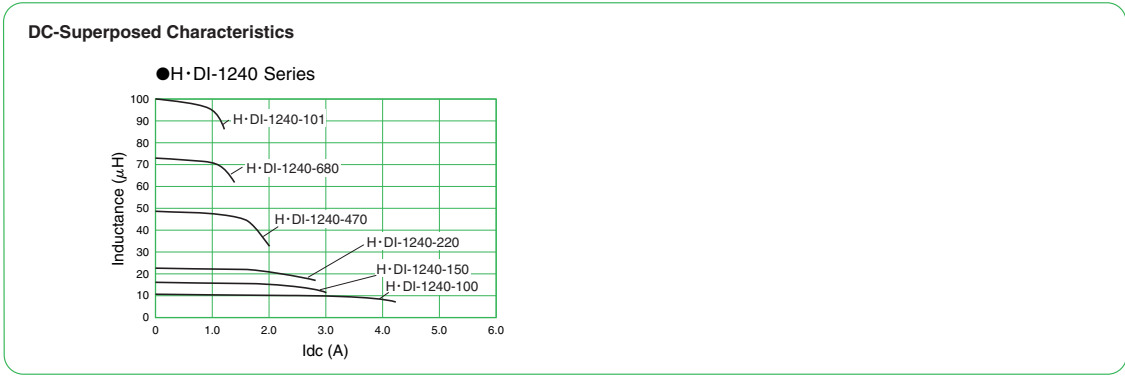
Recommended Land Pattern



[mm]

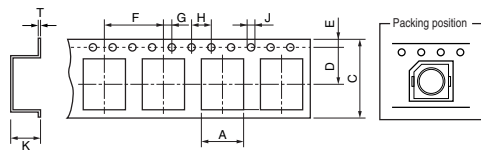


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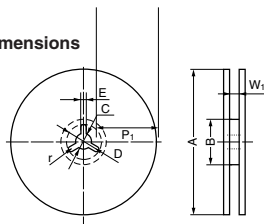
H·DI-1240 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1,-0 | ± 0.1 | ± 0.05 |
| 12.6 | 12.6 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | ∅1.5 | 4.2 | 0.4 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0,-0 | ±1.0 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 24.4 | 27.4 |



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Leadless Power Inductors H·DI-1245G Series

[RoHS Compliant]

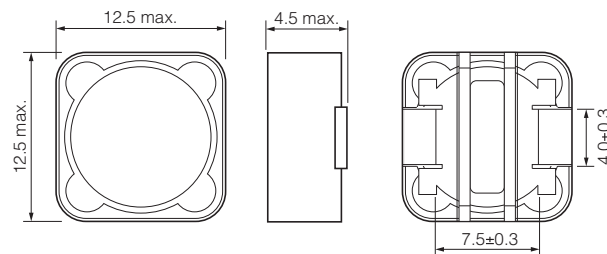


●H·DI-1245G Series

| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance (Ω) max. | Rated current (A) |
|----------------|--------------------------------------------|------------------------------------|----------------------|
| H·DI-1245G-100 | 10 \pm 20% | 28m | 4.50 |
| H·DI-1245G-150 | 15 \pm 20% | 50m | 3.20 |
| H·DI-1245G-220 | 22 \pm 20% | 66m | 2.90 |
| H·DI-1245G-330 | 33 \pm 20% | 97m | 2.70 |
| H·DI-1245G-470 | 47 \pm 20% | 0.15 | 1.90 |
| H·DI-1245G-680 | 68 \pm 20% | 0.19 | 1.50 |
| H·DI-1245G-101 | 100 \pm 20% | 0.28 | 1.30 |
| H·DI-1245G-151 | 150 \pm 20% | 0.48 | 1.00 |
| H·DI-1245G-221 | 220 \pm 20% | 0.61 | 0.85 |

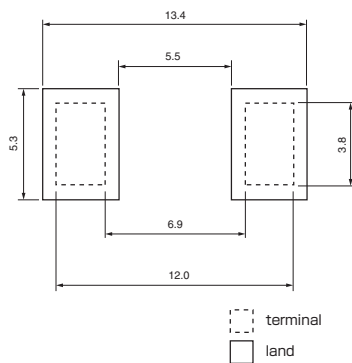
●Operating temperature range: -20 to +105°C (Including self-temperature rise)

Shape and Dimensions



[mm]

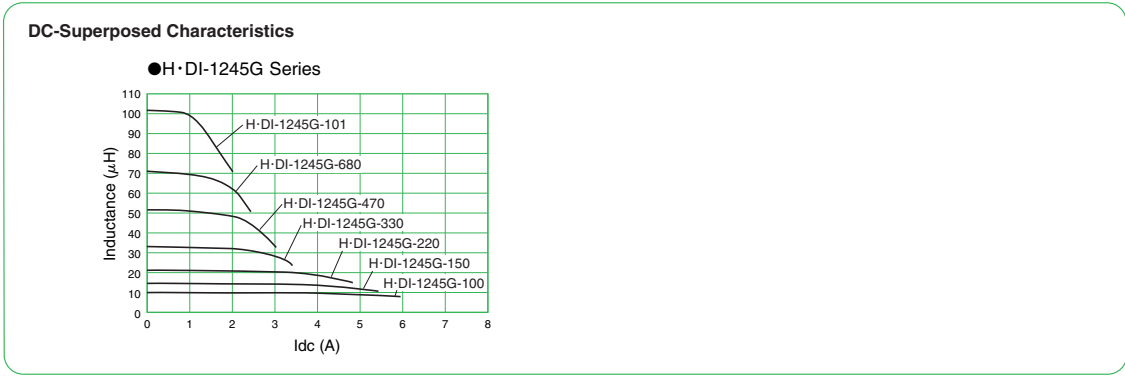
Recommended Land Pattern



[mm]

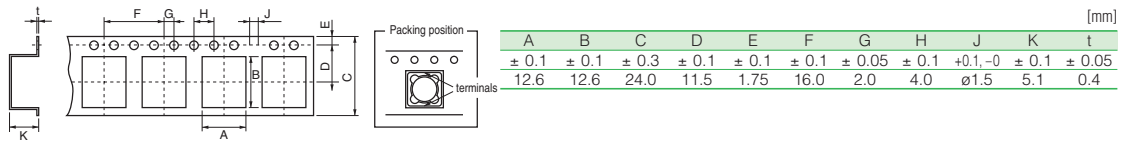


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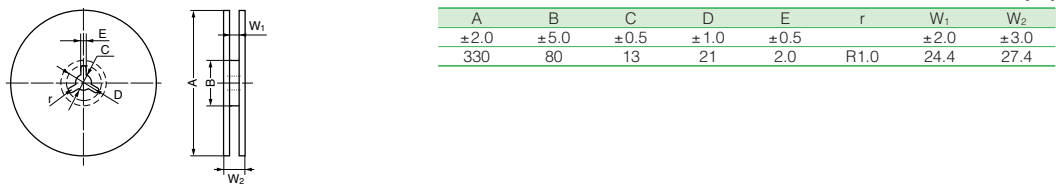


H-DI-1245G Series (500pcs./reel)

Dimensions of indented square hole plastic tape



Reel dimensions



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Leadless Power Inductors H·DI-1280G Series

[RoHS Compliant]

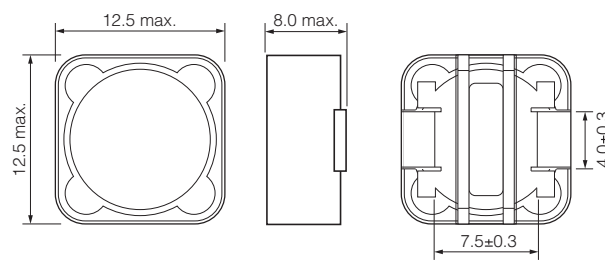


●H·DI-1280G Series

| Model | Inductance at 100kHz, 1mA (μ H) | DC resistance (m Ω) max. | Rated current (A) |
|----------------|--------------------------------------------|-------------------------------------|----------------------|
| H·DI-1280G-1R7 | 1.7 \pm 30% | 9 | 8.5 |
| H·DI-1280G-2R7 | 2.7 \pm 30% | 10 | 8.0 |
| H·DI-1280G-3R3 | 3.3 \pm 30% | 11 | 7.5 |
| H·DI-1280G-4R7 | 4.7 \pm 30% | 13 | 6.5 |
| H·DI-1280G-6R0 | 6.0 \pm 30% | 14 | 6.0 |
| H·DI-1280G-100 | 10 \pm 20% | 22 | 5.4 |
| H·DI-1280G-150 | 15 \pm 20% | 25 | 4.7 |
| H·DI-1280G-220 | 22 \pm 20% | 35 | 4.0 |
| H·DI-1280G-330 | 33 \pm 20% | 49 | 3.3 |
| H·DI-1280G-470 | 47 \pm 20% | 69 | 2.7 |
| H·DI-1280G-680 | 68 \pm 20% | 100 | 2.2 |
| H·DI-1280G-101 | 100 \pm 20% | 150 | 1.9 |
| H·DI-1280G-151 | 150 \pm 20% | 210 | 1.5 |
| H·DI-1280G-221 | 220 \pm 20% | 300 | 1.3 |

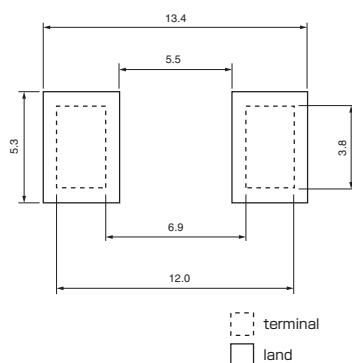
●Operating temperature range: -20 to +105°C (Including self-temperature rise)

Shape and Dimensions



[mm]

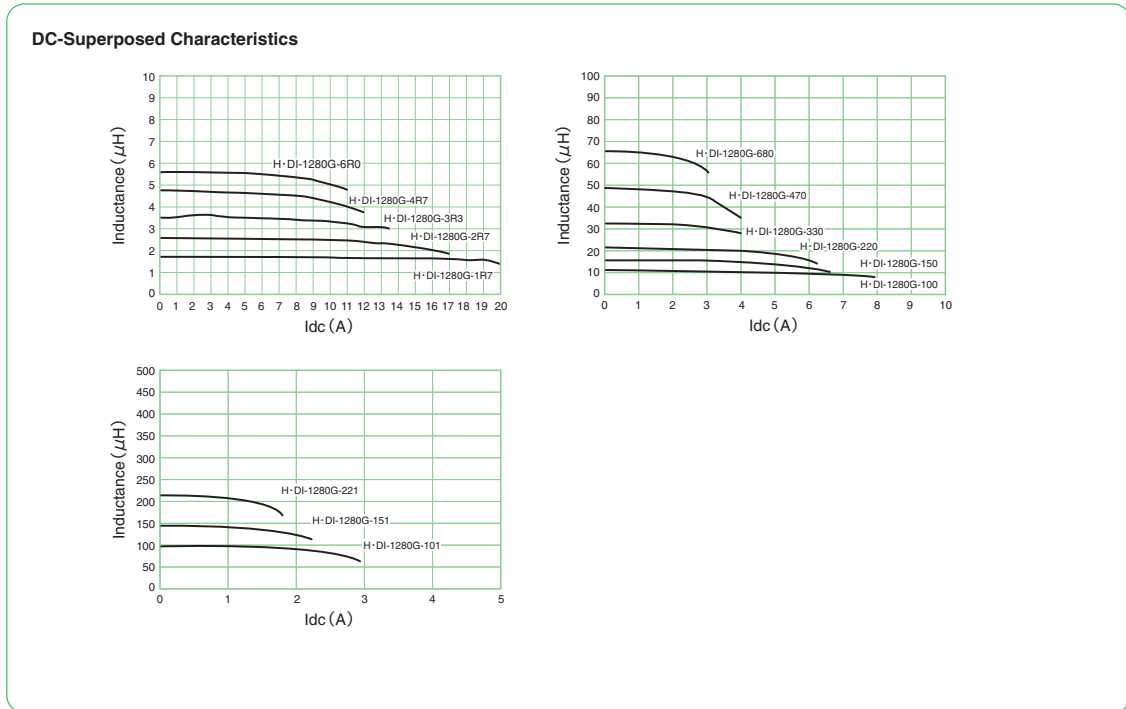
Recommended Land Pattern



[mm]

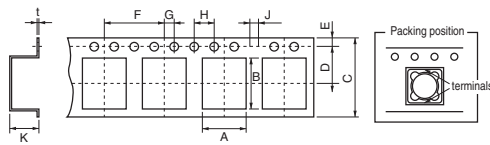


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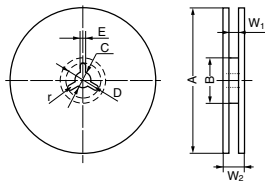
H•DI-1280G Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|--------|-------|----------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1, -0 | ± 0.1 | ± 0.05 |
| 12.6 | 12.6 | 24.0 | 11.5 | 1.75 | 16.0 | 2.0 | 4.0 | ∅1.5 | 8.6 | 0.4 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±2.0 | ±3.0 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 24.4 | 27.4 |



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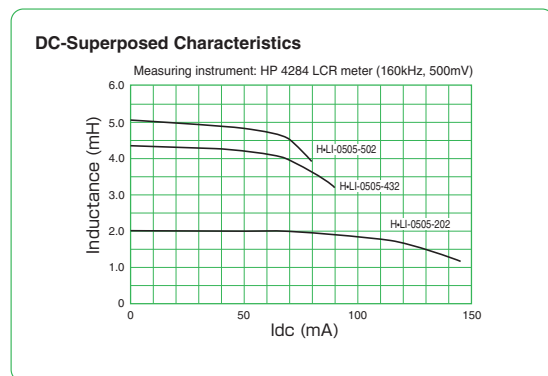
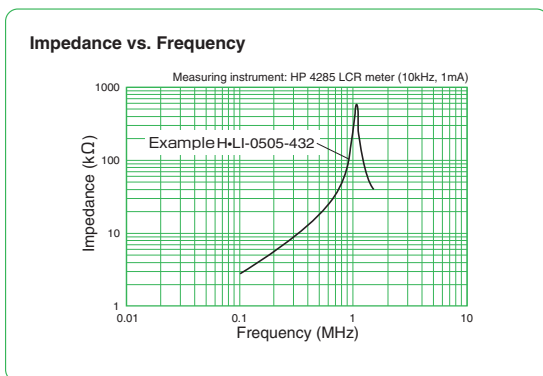
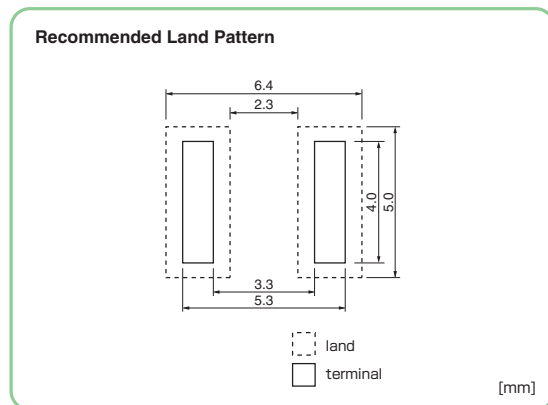
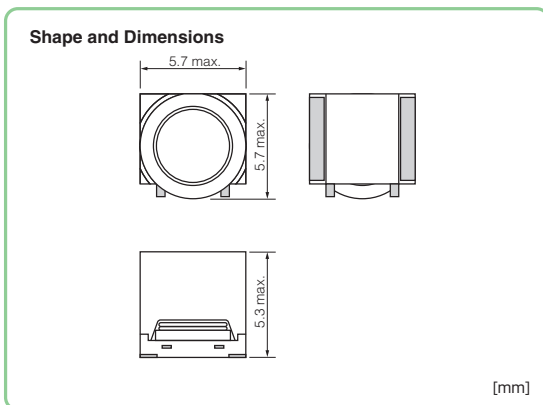
High Inductance Type SMD Inductors H·LI Series

[RoHS Compliant]



| Model | Inductance at 160kHz, 500mV (mH) | DC resistance (Ω) max. | Rated current (mA) |
|---------------|----------------------------------|------------------------|--------------------|
| H·LI-0505-202 | 2.0±20% | 10 | 100 |
| H·LI-0505-432 | 4.3±20% | 18 | 70 |
| H·LI-0505-502 | 5.0±20% | 20 | 40 |

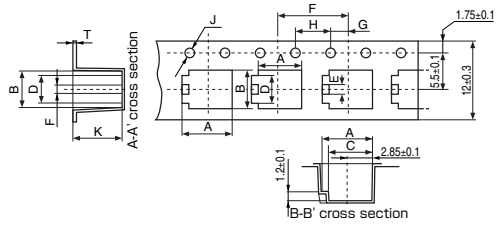
● Operating temperature range: -20 to +105°C (Including self-temperature rise)



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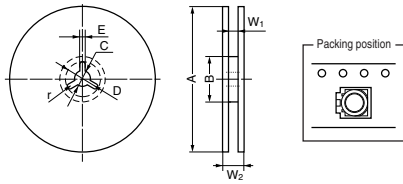
H•LI-0505 Series (2000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1-0 | ± 0.1 | ± 0.05 |
| 5.8 | 5.7 | 5.0 | 3.9 | 1.3 | 8.0 | 2.0 | 4.0 | ∅1.5 | 5.4 | 0.4 |

Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.2 |
| 330 | 80 | 13 | 21 | 2.0 | R1.0 | 12.5 | 15.5 |



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SSB Coils

[RoHS Compliant]



●SSB15 Series (SSB 15-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20°C | Current (Ref.) (A) | |
|-----------|----------------------------------------|--------------------|---------------------------------|-----------------------|-------------------|
| | | | | ΔT=40°C | L change rate 10% |
| SSB15-1R0 | 1.0±20% | 10 | 10.00 | 14.00 | 24.50 |
| SSB15-1R5 | 1.5±20% | 10 | 8.80 | 12.30 | 19.60 |
| SSB15-2R2 | 2.2±20% | 20 | 6.40 | 8.90 | 14.00 |
| SSB15-3R3 | 3.3±20% | 20 | 5.90 | 8.20 | 12.20 |
| SSB15-4R7 | 4.7±20% | 20 | 5.00 | 7.00 | 10.80 |
| SSB15-6R8 | 6.8±20% | 30 | 4.30 | 6.00 | 8.90 |
| SSB15-100 | 10±20% | 40 | 3.40 | 4.70 | 7.00 |
| SSB15-150 | 15±20% | 60 | 2.70 | 3.70 | 5.70 |
| SSB15-220 | 22±20% | 80 | 2.20 | 3.00 | 4.90 |
| SSB15-330 | 33±20% | 110 | 1.80 | 2.50 | 4.00 |
| SSB15-470 | 47±10% | 180 | 1.40 | 1.90 | 3.20 |
| SSB15-680 | 68±10% | 220 | 1.20 | 1.60 | 2.70 |
| SSB15-101 | 100±10% | 320 | 1.00 | 1.40 | 2.20 |
| SSB15-151 | 150±10% | 430 | 0.87 | 1.20 | 1.80 |
| SSB15-221 | 220±10% | 600 | 0.71 | 0.99 | 1.40 |
| SSB15-331 | 330±10% | 960 | 0.55 | 0.77 | 1.20 |
| SSB15-471 | 470±10% | 1400 | 0.45 | 0.63 | 1.00 |
| SSB15-681 | 680±10% | 2000 | 0.36 | 0.50 | 0.85 |
| SSB15-102 | 1000±10% | 3000 | 0.29 | 0.40 | 0.71 |

●SSB14 Series (SSB 14-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20°C | Current (Ref.) (A) | |
|-----------|----------------------------------------|--------------------|---------------------------------|-----------------------|-------------------|
| | | | | ΔT=40°C | L change rate 10% |
| SSB14-1R0 | 1.0±20% | 10 | 7.00 | 9.80 | 17.50 |
| SSB14-1R5 | 1.5±20% | 20 | 6.10 | 8.50 | 14.00 |
| SSB14-2R2 | 2.2±20% | 20 | 5.10 | 7.10 | 11.60 |
| SSB14-3R3 | 3.3±20% | 30 | 4.10 | 5.70 | 10.00 |
| SSB14-4R7 | 4.7±20% | 30 | 3.80 | 5.30 | 8.70 |
| SSB14-6R8 | 6.8±20% | 40 | 3.00 | 4.20 | 7.00 |
| SSB14-100 | 10±20% | 60 | 2.40 | 3.30 | 5.80 |
| SSB14-150 | 15±20% | 100 | 1.80 | 2.50 | 4.60 |
| SSB14-220 | 22±20% | 120 | 1.60 | 2.20 | 3.80 |
| SSB14-330 | 33±20% | 170 | 1.30 | 1.80 | 3.10 |
| SSB14-470 | 47±10% | 210 | 1.10 | 1.50 | 2.60 |
| SSB14-680 | 68±10% | 300 | 0.97 | 1.30 | 2.10 |
| SSB14-101 | 100±10% | 480 | 0.75 | 1.00 | 1.80 |
| SSB14-151 | 150±10% | 710 | 0.60 | 0.84 | 1.40 |
| SSB14-221 | 220±10% | 1000 | 0.51 | 0.71 | 1.20 |
| SSB14-331 | 330±10% | 1500 | 0.40 | 0.56 | 1.00 |
| SSB14-471 | 470±10% | 2300 | 0.32 | 0.44 | 0.86 |
| SSB14-681 | 680±10% | 3400 | 0.26 | 0.36 | 0.72 |
| SSB14-102 | 1000±10% | 4400 | 0.23 | 0.32 | 0.58 |



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●SSB84 Series (SSB 84-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20°C | Current (Ref.) (A) | |
|-----------|-------------------------------------|-----------------|------------------------------|--------------------|-------------------|
| | | | | ΔT=40°C | L change rate 10% |
| SSB84-1R0 | 1.0±20% | 40 | 2.30 | 3.20 | 10.00 |
| SSB84-1R5 | 1.5±20% | 40 | 2.20 | 3.00 | 8.30 |
| SSB84-2R2 | 2.2±20% | 50 | 2.00 | 2.80 | 7.10 |
| SSB84-3R3 | 3.3±20% | 50 | 1.90 | 2.60 | 6.20 |
| SSB84-4R7 | 4.7±20% | 60 | 1.70 | 2.30 | 5.00 |
| SSB84-6R8 | 6.8±20% | 80 | 1.60 | 2.20 | 4.10 |
| SSB84-100 | 10±20% | 100 | 1.40 | 1.90 | 3.30 |
| SSB84-150 | 15±20% | 110 | 1.20 | 1.60 | 2.70 |
| SSB84-220 | 22±20% | 160 | 1.20 | 1.60 | 2.10 |
| SSB84-330 | 33±20% | 200 | 1.00 | 1.40 | 1.70 |
| SSB84-470 | 47±10% | 300 | 0.75 | 1.00 | 1.50 |
| SSB84-680 | 68±10% | 410 | 0.70 | 0.98 | 1.20 |
| SSB84-101 | 100±10% | 570 | 0.60 | 0.84 | 1.10 |
| SSB84-151 | 150±10% | 1100 | 0.40 | 0.56 | 0.96 |
| SSB84-221 | 220±10% | 1450 | 0.35 | 0.49 | 0.77 |
| SSB84-331 | 330±10% | 2000 | 0.30 | 0.42 | 0.62 |
| SSB84-471 | 470±10% | 3300 | 0.20 | 0.28 | 0.55 |
| SSB84-681 | 680±10% | 4100 | 0.20 | 0.28 | 0.45 |
| SSB84-102 | 1000±10% | 5600 | 0.18 | 0.25 | 0.35 |

●SSB64 Series (SSB 64-□□□)

| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20°C | Current (Ref.) (A) | |
|-----------|-------------------------------------|-----------------|------------------------------|--------------------|-------------------|
| | | | | ΔT=40°C | L change rate 10% |
| SSB64-1R0 | 1.0±20% | 40 | 1.70 | 2.30 | 11.60 |
| SSB64-1R5 | 1.5±20% | 50 | 1.50 | 2.10 | 10.00 |
| SSB64-2R2 | 2.2±20% | 60 | 1.50 | 2.10 | 7.70 |
| SSB64-3R3 | 3.3±20% | 70 | 1.50 | 2.10 | 6.30 |
| SSB64-4R7 | 4.7±20% | 80 | 1.40 | 1.90 | 5.30 |
| SSB64-6R8 | 6.8±20% | 100 | 1.30 | 1.80 | 4.30 |
| SSB64-100 | 10±20% | 120 | 1.20 | 1.60 | 3.60 |
| SSB64-150 | 15±20% | 150 | 1.00 | 1.40 | 2.90 |
| SSB64-220 | 22±20% | 240 | 0.80 | 1.10 | 2.40 |
| SSB64-330 | 33±20% | 290 | 0.70 | 0.98 | 2.00 |
| SSB64-470 | 47±10% | 420 | 0.55 | 0.77 | 1.60 |
| SSB64-680 | 68±10% | 830 | 0.40 | 0.56 | 1.40 |
| SSB64-101 | 100±10% | 1000 | 0.35 | 0.49 | 1.00 |
| SSB64-151 | 150±10% | 1100 | 0.30 | 0.42 | 0.86 |
| SSB64-221 | 220±10% | 2400 | 0.30 | 0.42 | 0.71 |
| SSB64-331 | 330±10% | 3150 | 0.20 | 0.28 | 0.59 |
| SSB64-471 | 470±10% | 4000 | 0.19 | 0.26 | 0.49 |
| SSB64-681 | 680±10% | 6600 | 0.15 | 0.21 | 0.41 |
| SSB64-102 | 1000±10% | 8400 | 0.14 | 0.19 | 0.34 |

●SSB44 Series (SSB 44-□□□)

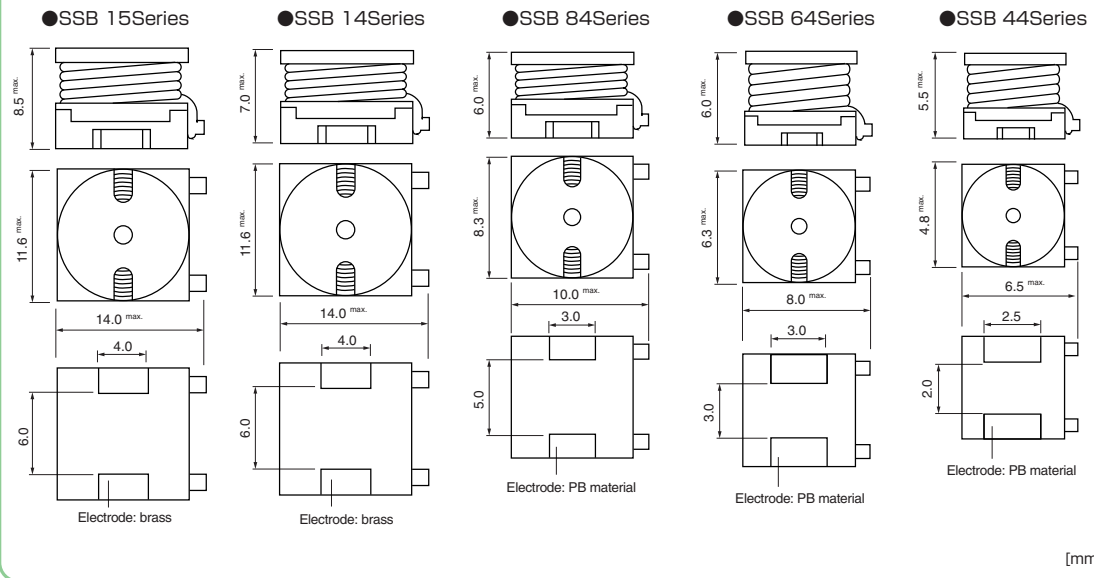
| Model | Inductance L (μH) at 10 kHz, 1mA | Rdc (mΩ) max | Rated current (A) ΔT=20°C | Current (Ref.) (A) | |
|-----------|-------------------------------------|-----------------|------------------------------|--------------------|-------------------|
| | | | | ΔT=40°C | L change rate 10% |
| SSB44-1R0 | 1.0±20% | 70 | 1.90 | 2.60 | 6.70 |
| SSB44-1R5 | 1.5±20% | 70 | 1.90 | 2.60 | 5.80 |
| SSB44-2R2 | 2.2±20% | 100 | 1.60 | 2.20 | 4.70 |
| SSB44-3R3 | 3.3±20% | 100 | 1.50 | 2.10 | 3.90 |
| SSB44-4R7 | 4.7±20% | 100 | 1.30 | 1.80 | 3.10 |
| SSB44-6R8 | 6.8±20% | 130 | 1.20 | 1.60 | 2.60 |
| SSB44-100 | 10±20% | 170 | 0.85 | 1.10 | 2.10 |
| SSB44-150 | 15±20% | 270 | 0.75 | 1.00 | 1.70 |
| SSB44-220 | 22±20% | 370 | 0.65 | 0.91 | 1.30 |
| SSB44-330 | 33±20% | 550 | 0.45 | 0.63 | 1.10 |
| SSB44-470 | 47±10% | 820 | 0.40 | 0.56 | 0.97 |
| SSB44-680 | 68±10% | 920 | 0.35 | 0.49 | 0.83 |
| SSB44-101 | 100±10% | 1600 | 0.25 | 0.35 | 0.71 |
| SSB44-151 | 150±10% | 1900 | 0.22 | 0.30 | 0.57 |
| SSB44-221 | 220±10% | 3000 | 0.20 | 0.28 | 0.46 |
| SSB44-331 | 330±10% | 4900 | 0.15 | 0.21 | 0.38 |
| SSB44-471 | 470±10% | 7500 | 0.12 | 0.16 | 0.31 |
| SSB44-681 | 680±10% | 8300 | 0.10 | 0.14 | 0.29 |

●Operating temperature range: -20 to +105°C (including self-temperature rise)

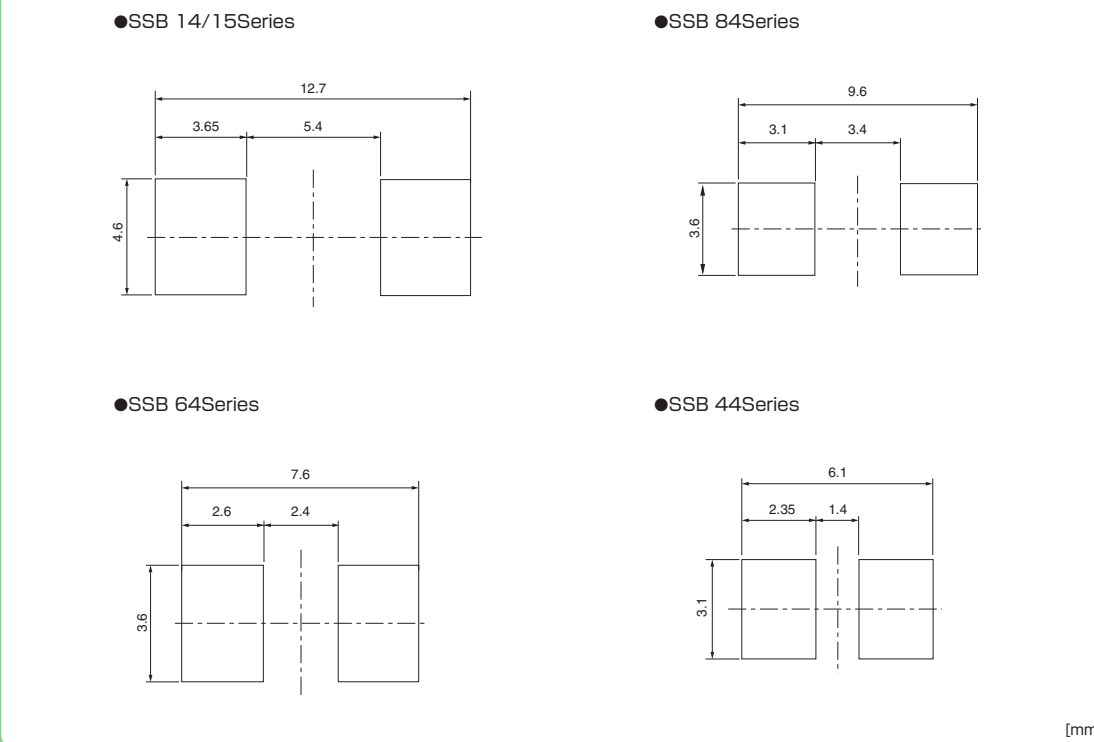


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Shape and Dimensions



Recommended Land Pattern



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Numbering System

SSB - 44 - 101

- ① Series
- ② Core size (indicated by the first numbers of the core's diameter and height.)

Model and core size

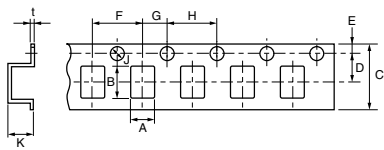
The Models use 5-digit numbers that show the core size and inductance. The first two digits show the core size, indicated by the first numbers of the core's diameter and height.

| Model | Core size [mm] |
|------------|----------------|
| SSB 15-□□□ | ø11.0×5.5 |
| SSB 14-□□□ | ø11.0×4.0 |
| SSB 84-□□□ | ø8.0×4.0 |
| SSB 64-□□□ | ø6.0×4.0 |
| SSB 44-□□□ | ø4.5×4.0 |

③ Inductance: $10 \times 10^1 = 100 (\mu\text{H})$

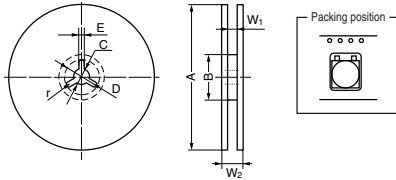
SSB14, 15 Series (500pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, -0 | SSB14: 6.5±0.1 | ± 0.05 |
| 11.7 | 14 | 24 | 11.5 | 1.75 | 16 | 2.0 | 4.0 | ø1.5 | SSB15: 8.0±0.1 | 0.4 |

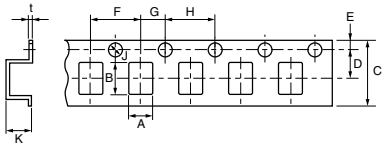
Reel dimensions



| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 12.5 | 15.5 |

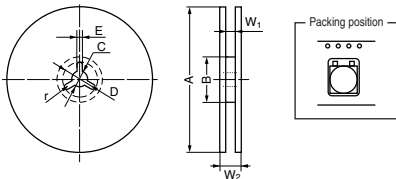
SSB84 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| [mm] | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| A | B | C | D | E | F | G | H | J | K | t |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1, -0 | ± 0.1 | ± 0.05 |
| 8.7 | 10.4 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | ø1.5 | 6.0 | 0.4 |

Reel dimensions



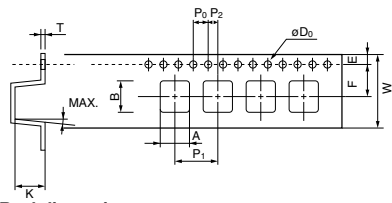
| [mm] | | | | | | | |
|------|------|------|------|------|------|----------------|----------------|
| A | B | C | D | E | r | W ₁ | W ₂ |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 16.5 | 19.5 |



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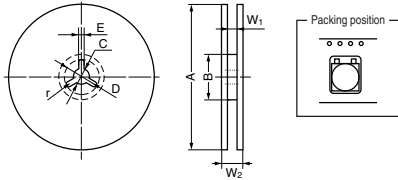
SSB64 Series (1000pcs./reel)

Dimensions of indented square hole plastic tape



| | | | | | | | | | | | [mm] |
|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|--------|------|
| A | B | C | D | E | F | G | H | J | K | t | |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | +0.1,-0 | ± 0.1 | ± 0.05 | |
| 6.7 | 8.4 | 16 | 7.5 | 1.75 | 12 | 2.0 | 4.0 | ø1.5 | 5.9 | 0.4 | |

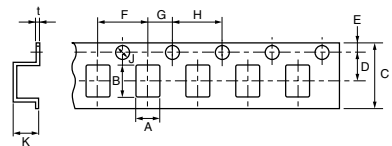
Reel dimensions



| | | | | | | | | [mm] |
|------|------|------|------|------|------|----------------|----------------|------|
| A | B | C | D | E | r | W ₁ | W ₂ | |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 | |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 16.5 | 19.5 | |

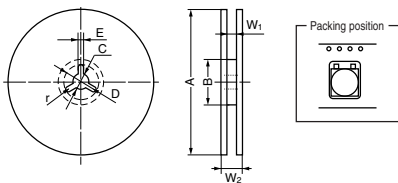
SSB44 Series (2000pcs./reel)

Dimensions of indented square hole plastic tape



| | | | | | | | | | | | [mm] |
|-------|-------|-------|-------|-------|-------|--------|-------|---------|-------|--------|------|
| A | B | C | D | E | F | G | H | J | K | t | |
| ± 0.1 | ± 0.1 | ± 0.3 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.05 | ± 0.1 | +0.1,-0 | ± 0.1 | ± 0.05 | |
| 4.8 | 6.0 | 12 | 5.5 | 1.75 | 8.0 | 2.0 | 4.0 | ø1.5 | 5.4 | 0.4 | |

Reel dimensions



| | | | | | | | | [mm] |
|------|------|------|------|------|------|----------------|----------------|------|
| A | B | C | D | E | r | W ₁ | W ₂ | |
| ±2.0 | ±5.0 | ±0.5 | ±1.0 | ±0.5 | | ±0.1 | ±0.3 | |
| 380 | 80 | 13 | 21 | 2.0 | R1.0 | 12.5 | 15.5 | |



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Precautions

Shelf Life

Use within 6 months. If the product is used after a storage period of 6 months or longer, confirm its solderability before use.

Recommended conditions for soldering

- Soldering iron:
Soldering iron temperature: 280°C to 320°C
Soldering duration: approx. 4 sec.
- Flow soldering:
Preheating: Approx. 100°C to 150°C for 1 min.
Soldering temperature: 260°C±5°C for 10±1 sec.
- Reflow soldering:
Refer to the following temperature profile.

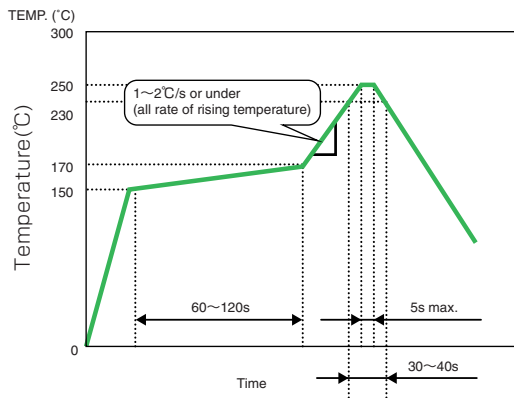
Precautions for product storage

Storage condition

- Avoid storage in high temperature and high humidity environment as such condition may deteriorate the solderability of external electrode.
- Avoid storage in atmosphere containing toxic gasses or acid (e.g. sulphur and chlorine) as such gas may deteriorate the solderability of external electrode.
- Avoid storage near strong magnetic field as such condition may magnetize the product.

Storage after unpacking

- Products should be stored in environment with temperature lower than 40°C and humidity lower than 70%RH.
- To achieve best solderability, use the products as soon as possible after unpacking. Store the leftover product in dry condition with desiccant.



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OH Coils

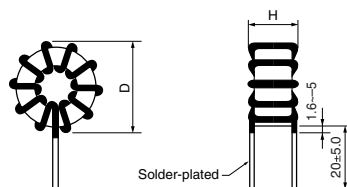
[RoHS Compliant]



| Model | Rated current (A) | Inductance L (μ H) at 100kHz | | DC resistance (m Ω) max. | External dimensions (mm) max. | Diameter of magnetic wire (mm ϕ) |
|----------|-------------------|-----------------------------------|---------------------------------|----------------------------------|-------------------------------|----------------------------------------|
| | | $\pm 25\%$ at $I_{dc}=0$ | min. at $I_{dc}=\text{Rated}^*$ | | | |
| OH-011Z | 1 | 200 | 120 (160) | 150 | $\phi 17 \times 10$ | 0.5 |
| OH-021Z | 2 | 65 | 41 (55) | 50 | $\phi 18 \times 11$ | 0.7 |
| OH-031Z | 3 | 30 | 17 (23) | 30 | $\phi 18 \times 10$ | 0.8 |
| OH-012Z | 1 | 600 | 337 (450) | 220 | $\phi 21 \times 11$ | 0.5 |
| OH-022Z | 2 | 180 | 101 (135) | 65 | $\phi 22 \times 12$ | 0.7 |
| OH-032Z | 3 | 120 | 60 (80) | 45 | $\phi 22 \times 12$ | 0.8 |
| OH-052Z | 5 | 45 | 22 (30) | 20 | $\phi 23 \times 13$ | 1.0 |
| OH-013Z | 1 | 1000 | 600 (800) | 375 | $\phi 26 \times 12$ | 0.5 |
| OH-023Z | 2 | 500 | 247 (330) | 140 | $\phi 26 \times 13$ | 0.7 |
| OH-033Z | 3 | 130 | 75 (100) | 55 | $\phi 26 \times 12$ | 0.8 |
| OH-053Z | 5 | 90 | 41 (55) | 30 | $\phi 26 \times 13$ | 1.0 |
| OH-073Z | 7 | 90 | 28 (36) | 25 | $\phi 27 \times 13$ | 1.2 |
| OH-034SZ | 3 | 400 | 187 (250) | 105 | $\phi 32 \times 14$ | 0.8 |
| OH-054SZ | 5 | 350 | 120 (160) | 65 | $\phi 33 \times 16$ | 1.0 |
| OH-074SZ | 7 | 250 | 80 (106) | 40 | $\phi 34 \times 18$ | 1.2 |
| OH-104SZ | 10 | 50 | 22 (30) | 15 | $\phi 34 \times 16$ | 1.1 \times 2 P |
| OH-024Z | 2 | 1500 | 712 (950) | 270 | $\phi 34 \times 19$ | 0.7 |
| OH-034Z | 3 | 300 | 172 (230) | 95 | $\phi 34 \times 19$ | 0.8 |
| OH-054Z | 5 | 210 | 105 (140) | 50 | $\phi 34 \times 20$ | 1.0 |
| OH-074Z | 7 | 100 | 65 (87) | 30 | $\phi 34 \times 18$ | 1.2 |
| OH-104Z | 10 | 45 | 22 (30) | 10 | $\phi 34 \times 20$ | 1.6 |
| OH-035Z | 3 | 700 | 350 (450) | 140 | $\phi 39 \times 19$ | 0.8 |
| OH-055Z | 5 | 600 | 270 (290) | 85 | $\phi 40 \times 19$ | 1.0 |
| OH-075Z | 7 | 400 | 120 (160) | 50 | $\phi 40 \times 21$ | 1.2 |
| OH-105Z | 10 | 180 | 60 (80) | 20 | $\phi 41 \times 20$ | 1.6 |
| OH-205Z | 20 | 20 | 10 (14) | 6 | $\phi 42 \times 20$ | 1.8 \times 2 P |

* Parenthesized values are examples of actually measured values.
 ● The core is covered with coating. (powder epoxy coating)

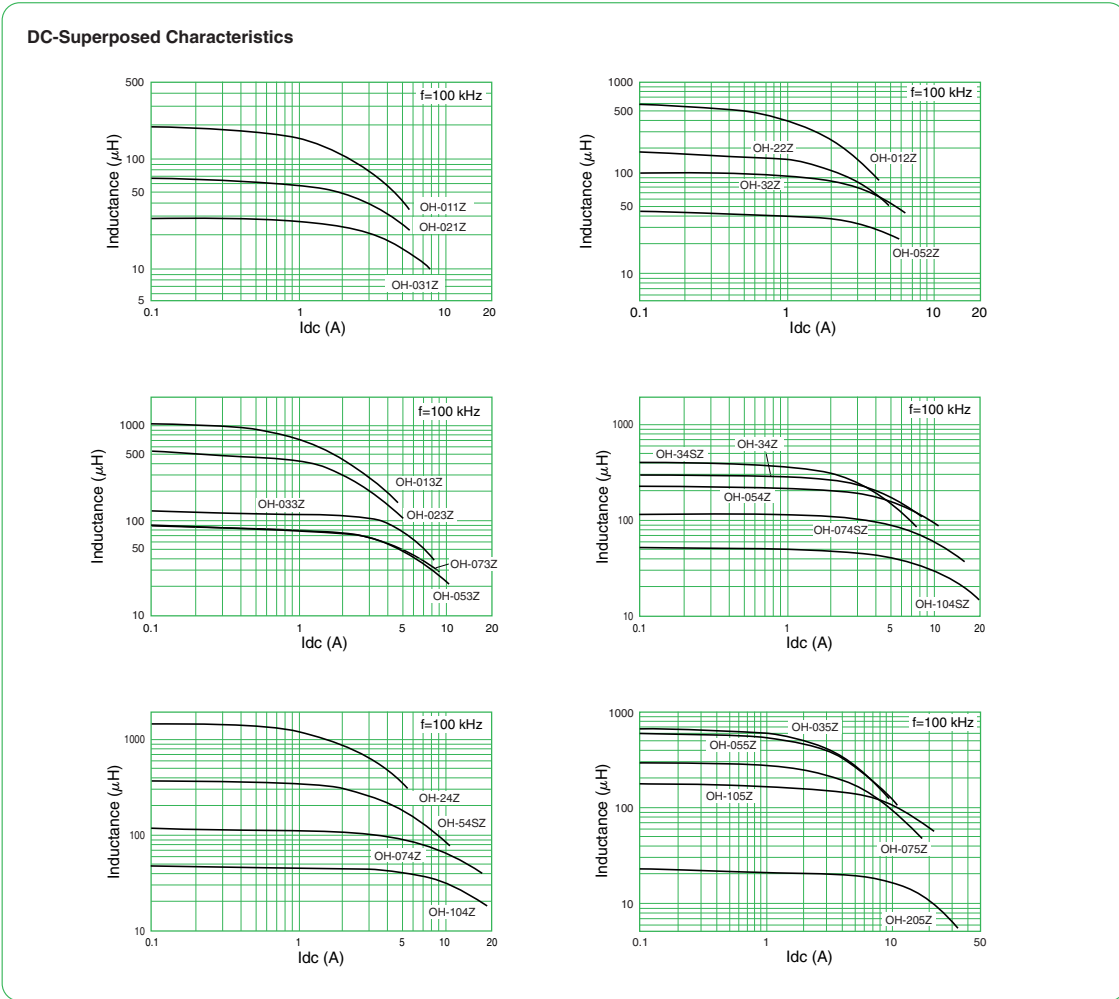
Shape and Dimensions



[mm]



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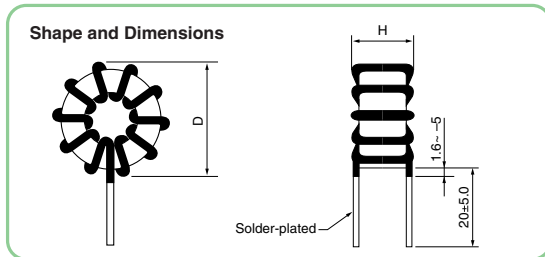
SHP Coils

[RoHS Compliant]

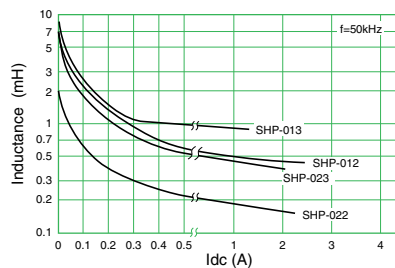
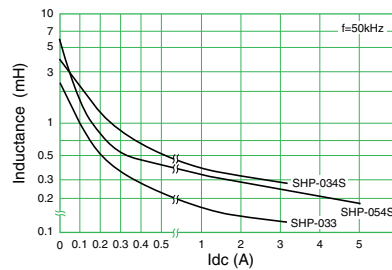
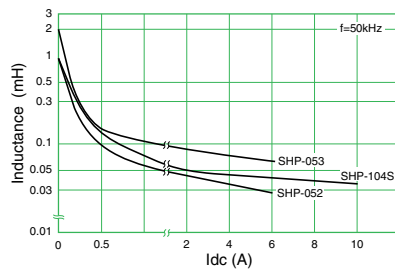


| Model | Rated current (A) | Inductance (μ H) at 50kHz | | DC resistance (m Ω) max. | External dimensions D×H (mm) max. | Diameter of magnetic wire (mm ϕ) | Temperature rise (K) *2 |
|----------|-------------------|--------------------------------|----------------------|----------------------------------|-----------------------------------|----------------------------------------|-------------------------|
| | | min. at Idc | min. at Idc Rated *1 | | | | |
| SHP-012 | 1 | 4500 | 365 (490) | 340 | ϕ 24×18 | 0.5 | \leq 30 |
| SHP-022 | 2 | 1500 | 115 (155) | 110 | ϕ 24×18 | 0.7 | \leq 30 |
| SHP-032 | 3 | 1120 | 63 (85) | 70 | ϕ 25×19 | 0.8 | \leq 30 |
| SHP-052 | 5 | 375 | 25 (35) | 30 | ϕ 27×20 | 1.0 | \leq 30 |
| SHP-013 | 1 | 9000 | 675 (900) | 500 | ϕ 28×19 | 0.5 | \leq 30 |
| SHP-023 | 2 | 4500 | 260 (350) | 190 | ϕ 29×19 | 0.7 | \leq 30 |
| SHP-033 | 3 | 1120 | 95 (130) | 80 | ϕ 28×18 | 0.8 | \leq 30 |
| SHP-053 | 5 | 750 | 48 (65) | 50 | ϕ 29×20 | 1.0 | \leq 30 |
| SHP-034S | 3 | 3750 | 215 (290) | 130 | ϕ 35×21 | 0.8 | \leq 40 |
| SHP-054S | 5 | 3750 | 135 (180) | 85 | ϕ 36×21 | 1.0 | \leq 40 |
| SHP-104S | 10 | 525 | 25 (35) | 20 | ϕ 37×23 | 1.6 | \leq 40 |

* Parenthesized values are examples of actually measured values.
 * 1: Temperature rise of Idc rated. * Cores insulation cap: polypropylene, A type insulation



DC-Superposed Characteristics



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SBC Coils

[RoHS Compliant]



●SBC1Series (SBC1-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1 mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|--------------------------------------|---------------------------|------------------------------|-------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate-10% | Soft lead | Pin lead |
| SBC1-1R0-312 | 1.0±20% | 0.03 | 3.10 | 4.30 | 5.20 | ○ | |
| SBC1-1R5-292 | 1.5±20% | 0.03 | 2.90 | 4.00 | 4.00 | ○ | |
| SBC1-2R2-272 | 2.2±20% | 0.04 | 2.70 | 3.70 | 3.20 | ○ | |
| SBC1-3R3-232 | 3.3±20% | 0.04 | 2.30 | 3.20 | 2.70 | ○ | |
| SBC1-4R7-202 | 4.7±20% | 0.05 | 2.00 | 2.80 | 2.10 | ○ | |
| SBC1-6R8-182 | 6.8±20% | 0.06 | 1.80 | 2.50 | 1.90 | ○ | |
| SBC1-100-172 | 10±20% | 0.08 | 1.70 | 2.30 | 1.50 | ○ | |
| SBC1-150-162 | 15±20% | 0.10 | 1.60 | 2.20 | 1.20 | ○ | |
| SBC1-220-132 | 22±20% | 0.13 | 1.30 | 1.80 | 1.00 | ○ | |
| SBC1-330-102 | 33±20% | 0.22 | 1.00 | 1.40 | 0.83 | ○ | |
| SBC1-470-711 | 47±10% | 0.34 | 0.71 | 0.99 | 0.71 | ○ | ○ |
| SBC1-680-651 | 68±10% | 0.42 | 0.65 | 0.91 | 0.59 | ○ | ○ |
| SBC1-101-571 | 100±10% | 0.65 | 0.57 | 0.79 | 0.47 | ○ | ○ |
| SBC1-151-431 | 150±10% | 1.00 | 0.43 | 0.60 | 0.38 | ○ | ○ |
| SBC1-221-391 | 220±10% | 1.20 | 0.39 | 0.54 | 0.32 | ○ | ○ |
| SBC1-331-341 | 330±10% | 1.90 | 0.34 | 0.47 | 0.26 | ○ | ○ |
| SBC1-471-301 | 470±10% | 2.40 | 0.30 | 0.42 | 0.21 | ○ | ○ |
| SBC1-681-251 | 680±10% | 3.40 | 0.25 | 0.35 | 0.18 | ○ | ○ |
| SBC1-102-211 | 1000±10% | 4.90 | 0.21 | 0.29 | 0.14 | ○ | ○ |
| SBC1-152-181 | 1500±10% | 8.00 | 0.18 | 0.25 | 0.12 | ○ | ○ |

Package: Bulk 10,000pcs/box

●SBC2Series (SBC2-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1 mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|--------------------------------------|---------------------------|------------------------------|-------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate-10% | Soft lead | Pin lead |
| SBC2-1R0-612 | 1.0±20% | 0.01 | 6.10 | 8.50 | 6.40 | ○ | |
| SBC2-1R5-402 | 1.5±20% | 0.02 | 4.00 | 5.60 | 4.90 | ○ | |
| SBC2-3R3-352 | 3.3±20% | 0.03 | 3.50 | 4.90 | 4.00 | ○ | |
| SBC2-4R7-262 | 4.7±20% | 0.04 | 2.60 | 3.60 | 3.10 | ○ | |
| SBC2-6R8-242 | 6.8±20% | 0.05 | 2.40 | 3.30 | 2.70 | ○ | |
| SBC2-100-212 | 10±20% | 0.06 | 2.10 | 2.90 | 2.10 | ○ | |
| SBC2-150-162 | 15±20% | 0.08 | 1.60 | 2.20 | 1.70 | ○ | |
| SBC2-220-132 | 22±20% | 0.11 | 1.30 | 1.80 | 1.40 | ○ | |
| SBC2-330-112 | 33±20% | 0.18 | 1.10 | 1.50 | 1.20 | ○ | |
| SBC2-470-951 | 47±10% | 0.21 | 0.95 | 1.30 | 1.00 | ○ | |
| SBC2-680-871 | 68±10% | 0.26 | 0.87 | 1.20 | 0.81 | ○ | |
| SBC2-101-671 | 100±10% | 0.41 | 0.67 | 0.93 | 0.68 | ○ | ○ |
| SBC2-151-501 | 150±10% | 0.64 | 0.50 | 0.70 | 0.55 | ○ | ○ |
| SBC2-221-411 | 220±10% | 0.87 | 0.41 | 0.57 | 0.45 | ○ | ○ |
| SBC2-331-341 | 330±10% | 1.40 | 0.34 | 0.47 | 0.37 | ○ | ○ |
| SBC2-471-271 | 470±10% | 2.00 | 0.27 | 0.37 | 0.32 | ○ | ○ |
| SBC2-681-211 | 680±10% | 3.10 | 0.21 | 0.29 | 0.26 | ○ | ○ |
| SBC2-102-181 | 1000±10% | 4.00 | 0.18 | 0.25 | 0.21 | ○ | ○ |
| SBC2-152-141 | 1500±10% | 6.20 | 0.14 | 0.19 | 0.17 | ○ | ○ |
| SBC2-222-121 | 2200±10% | 8.00 | 0.12 | 0.16 | 0.14 | ○ | ○ |
| SBC2-332-900 | 3300±10% | 13.80 | 0.09 | 0.12 | 0.11 | ○ | ○ |

Package: Soft lead · bulk 3,750pcs/box
Pin lead · bulk 8,000pcs/box



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●SBC3Series (SBC3-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|----------------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate=10% | Soft lead | Pin lead |
| SBC3-1R2-752 | 1.2±20% | 0.01 | 7.50 | 10.50 | 9.80 | ○ | |
| SBC3-1R5-632 | 1.5±20% | 0.01 | 6.30 | 8.80 | 8.30 | ○ | |
| SBC3-2R2-602 | 2.2±20% | 0.02 | 6.00 | 8.40 | 7.20 | ○ | |
| SBC3-3R3-472 | 3.3±20% | 0.02 | 4.70 | 6.50 | 5.60 | ○ | |
| SBC3-4R7-422 | 4.7±20% | 0.02 | 4.20 | 5.80 | 4.60 | ○ | |
| SBC3-6R8-392 | 6.8±20% | 0.03 | 3.90 | 5.40 | 4.00 | ○ | |
| SBC3-100-362 | 10±20% | 0.03 | 3.60 | 5.00 | 3.00 | ○ | |
| SBC3-150-232 | 15±20% | 0.05 | 2.30 | 3.20 | 2.60 | ○ | |
| SBC3-220-202 | 22±20% | 0.06 | 2.00 | 2.80 | 2.10 | ○ | |
| SBC3-330-172 | 33±20% | 0.09 | 1.70 | 2.30 | 1.80 | ○ | |
| SBC3-470-142 | 47±10% | 0.12 | 1.40 | 1.90 | 1.40 | ○ | |
| SBC3-680-112 | 68±10% | 0.19 | 1.10 | 1.50 | 1.20 | ○ | |
| SBC3-101-961 | 100±10% | 0.26 | 0.96 | 1.30 | 1.00 | ○ | |
| SBC3-151-791 | 150±10% | 0.36 | 0.79 | 1.10 | 0.81 | ○ | |
| SBC3-221-681 | 220±10% | 0.49 | 0.68 | 0.95 | 0.67 | ○ | ○ |
| SBC3-331-551 | 330±10% | 0.72 | 0.55 | 0.77 | 0.53 | ○ | ○ |
| SBC3-471-491 | 470±10% | 1.02 | 0.49 | 0.68 | 0.46 | ○ | ○ |
| SBC3-681-361 | 680±10% | 1.62 | 0.36 | 0.50 | 0.38 | ○ | ○ |
| SBC3-102-281 | 1000±10% | 2.37 | 0.28 | 0.39 | 0.31 | ○ | ○ |
| SBC3-152-251 | 1500±10% | 3.64 | 0.25 | 0.35 | 0.26 | ○ | ○ |
| SBC3-222-191 | 2200±10% | 5.62 | 0.19 | 0.26 | 0.21 | ○ | ○ |
| SBC3-332-151 | 3300±10% | 7.66 | 0.15 | 0.21 | 0.17 | ○ | ○ |
| SBC3-472-121 | 4700±10% | 11.40 | 0.12 | 0.16 | 0.14 | ○ | ○ |
| SBC3-682-111 | 6800±10% | 14.50 | 0.11 | 0.15 | 0.12 | ○ | ○ |

Package: Bulk 4,000pcs/box

●SBC4Series (SBC4-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|----------------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate=10% | Soft lead | Pin lead |
| SBC4-1R0-742 | 1.0±20% | 0.01 | 7.40 | 10.30 | 14.90 | ○ | |
| SBC4-1R5-712 | 1.5±20% | 0.01 | 7.10 | 9.90 | 12.60 | ○ | |
| SBC4-2R7-662 | 2.7±20% | 0.02 | 6.60 | 9.20 | 9.60 | ○ | |
| SBC4-3R3-642 | 3.3±20% | 0.02 | 6.40 | 8.90 | 8.60 | ○ | |
| SBC4-4R7-582 | 4.7±20% | 0.02 | 5.80 | 8.10 | 7.10 | ○ | |
| SBC4-6R8-452 | 6.8±20% | 0.03 | 4.50 | 6.30 | 5.60 | ○ | |
| SBC4-100-292 | 10±20% | 0.04 | 2.90 | 4.00 | 4.60 | ○ | |
| SBC4-150-232 | 15±20% | 0.06 | 2.30 | 3.20 | 4.00 | ○ | |
| SBC4-220-202 | 22±20% | 0.07 | 2.00 | 2.80 | 3.20 | ○ | |
| SBC4-330-182 | 33±20% | 0.09 | 1.80 | 2.50 | 2.60 | ○ | |
| SBC4-470-162 | 47±10% | 0.11 | 1.60 | 2.20 | 2.10 | ○ | |
| SBC4-680-122 | 68±10% | 0.19 | 1.20 | 1.60 | 1.80 | ○ | |
| SBC4-101-102 | 100±10% | 0.26 | 1.00 | 1.40 | 1.50 | ○ | |
| SBC4-151-861 | 150±10% | 0.36 | 0.86 | 1.20 | 1.20 | ○ | |
| SBC4-221-721 | 220±10% | 0.47 | 0.72 | 1.00 | 1.00 | ○ | ○ |
| SBC4-331-591 | 330±10% | 0.67 | 0.59 | 0.82 | 0.81 | ○ | ○ |
| SBC4-471-491 | 470±10% | 0.95 | 0.49 | 0.68 | 0.68 | ○ | ○ |
| SBC4-681-431 | 680±10% | 1.32 | 0.43 | 0.60 | 0.57 | ○ | ○ |
| SBC4-102-291 | 1000±10% | 2.15 | 0.29 | 0.40 | 0.47 | ○ | ○ |
| SBC4-152-221 | 1500±10% | 3.24 | 0.22 | 0.30 | 0.38 | ○ | ○ |
| SBC4-222-211 | 2200±10% | 4.97 | 0.21 | 0.29 | 0.32 | ○ | ○ |
| SBC4-332-161 | 3300±10% | 7.69 | 0.16 | 0.22 | 0.26 | ○ | ○ |
| SBC4-472-141 | 4700±10% | 9.78 | 0.14 | 0.19 | 0.21 | ○ | ○ |
| SBC4-682-111 | 6800±10% | 15.00 | 0.11 | 0.15 | 0.18 | ○ | ○ |
| SBC4-103-111 | 10000±10% | 19.50 | 0.11 | 0.15 | 0.14 | ○ | ○ |

Package: Soft lead · bulk 3,000pcs/box
Pin lead · bulk 4,000pcs/box

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●SBC6Series (SBC6-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|----------------------------------|------------------------|---------------------------|-------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate-10% | Soft lead | Pin lead |
| SBC6-1R0-962 | 1.0±20% | 0.01 | 9.60 | 13.40 | 37.70 | ○ | |
| SBC6-1R5-942 | 1.5±20% | 0.01 | 9.40 | 13.10 | 30.90 | ○ | |
| SBC6-2R7-872 | 2.7±20% | 0.01 | 8.70 | 12.10 | 22.60 | ○ | |
| SBC6-3R3-852 | 3.3±20% | 0.01 | 8.50 | 11.90 | 20.00 | ○ | |
| SBC6-4R7-802 | 4.7±20% | 0.01 | 8.00 | 11.20 | 16.10 | ○ | |
| SBC6-6R8-662 | 6.8±20% | 0.02 | 6.60 | 9.20 | 13.60 | ○ | |
| SBC6-100-462 | 10±20% | 0.03 | 4.60 | 6.40 | 10.90 | ○ | |
| SBC6-150-382 | 15±20% | 0.03 | 3.80 | 5.30 | 9.10 | ○ | |
| SBC6-220-302 | 22±20% | 0.05 | 3.00 | 4.20 | 7.50 | ○ | |
| SBC6-330-272 | 33±20% | 0.06 | 2.70 | 3.70 | 6.10 | ○ | |
| SBC6-470-232 | 47±10% | 0.08 | 2.30 | 3.20 | 5.00 | ○ | |
| SBC6-680-222 | 68±10% | 0.09 | 2.20 | 3.00 | 4.10 | ○ | |
| SBC6-101-172 | 100±10% | 0.13 | 1.70 | 2.30 | 3.50 | ○ | |
| SBC6-151-122 | 150±10% | 0.23 | 1.20 | 1.60 | 2.80 | ○ | |
| SBC6-221-112 | 220±10% | 0.33 | 1.10 | 1.50 | 2.30 | ○ | |
| SBC6-331-871 | 330±10% | 0.41 | 0.87 | 1.20 | 1.90 | ○ | |
| SBC6-471-701 | 470±10% | 0.63 | 0.70 | 0.98 | 1.60 | ○ | |
| SBC6-681-631 | 680±10% | 0.98 | 0.63 | 0.88 | 1.30 | | ○ |
| SBC6-102-561 | 1000±10% | 1.21 | 0.56 | 0.78 | 1.10 | | ○ |
| SBC6-152-451 | 1500±10% | 1.80 | 0.45 | 0.63 | 0.90 | | ○ |
| SBC6-222-351 | 2200±10% | 2.63 | 0.35 | 0.49 | 0.73 | | ○ |
| SBC6-332-281 | 3300±10% | 4.24 | 0.28 | 0.39 | 0.61 | | ○ |
| SBC6-472-241 | 4700±10% | 5.92 | 0.24 | 0.33 | 0.50 | | ○ |
| SBC6-682-181 | 6800±10% | 8.92 | 0.18 | 0.25 | 0.42 | | ○ |
| SBC6-103-161 | 10000±10% | 13.60 | 0.16 | 0.22 | 0.35 | | ○ |

Package: Soft lead · bulk 1,600pcs/box
Pin lead · bulk 2,000pcs/box

●SBC7Series (SBC7-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|----------------------------------|------------------------|---------------------------|-------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate-10% | Soft lead | Pin lead |
| SBC7-6R8-612 | 6.8±20% | 0.02 | 6.10 | 8.50 | 13.90 | ○ | |
| SBC7-100-532 | 10±20% | 0.02 | 5.30 | 7.20 | 11.80 | ○ | |
| SBC7-150-482 | 15±20% | 0.03 | 4.80 | 6.70 | 9.60 | ○ | |
| SBC7-220-432 | 22±20% | 0.03 | 4.30 | 6.00 | 7.80 | ○ | |
| SBC7-330-342 | 33±20% | 0.05 | 3.40 | 4.70 | 6.20 | ○ | |
| SBC7-470-282 | 47±10% | 0.06 | 2.80 | 3.90 | 5.20 | ○ | |
| SBC7-680-222 | 68±10% | 0.09 | 2.20 | 3.00 | 4.50 | ○ | |
| SBC7-101-192 | 100±10% | 0.12 | 1.90 | 2.60 | 3.60 | ○ | |
| SBC7-151-172 | 150±10% | 0.16 | 1.70 | 2.30 | 2.90 | ○ | |
| SBC7-221-132 | 220±10% | 0.25 | 1.30 | 1.80 | 2.40 | ○ | |
| SBC7-331-941 | 330±10% | 0.45 | 0.94 | 1.30 | 2.00 | ○ | |
| SBC7-471-851 | 470±10% | 0.55 | 0.85 | 1.10 | 1.60 | ○ | |
| SBC7-681-701 | 680±10% | 0.81 | 0.70 | 0.98 | 1.40 | ○ | |
| SBC7-102-541 | 1000±10% | 1.20 | 0.54 | 0.75 | 1.10 | | ○ |
| SBC7-152-481 | 1500±10% | 1.58 | 0.48 | 0.67 | 0.93 | | ○ |
| SBC7-222-421 | 2200±10% | 2.18 | 0.42 | 0.58 | 0.77 | | ○ |
| SBC7-332-361 | 3300±10% | 3.51 | 0.36 | 0.50 | 0.63 | | ○ |
| SBC7-472-281 | 4700±10% | 4.83 | 0.28 | 0.39 | 0.53 | | ○ |
| SBC7-682-211 | 6800±10% | 7.00 | 0.21 | 0.29 | 0.44 | | ○ |
| SBC7-103-191 | 10000±10% | 10.30 | 0.19 | 0.26 | 0.36 | | ○ |

Package: Bulk 1,000pcs/box



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●SBC8Series (SBC8-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|----------------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate=10% | Soft lead | Pin lead |
| SBC8-6R8-862 | 6.8±20% | 0.02 | 8.60 | 12.00 | 13.90 | ○ | |
| SBC8-100-692 | 10±20% | 0.02 | 6.90 | 9.60 | 11.80 | ○ | |
| SBC8-150-532 | 15±20% | 0.03 | 5.30 | 7.40 | 9.60 | ○ | |
| SBC8-220-492 | 22±20% | 0.03 | 4.90 | 6.80 | 7.80 | ○ | |
| SBC8-330-452 | 33±20% | 0.04 | 4.50 | 6.30 | 6.50 | ○ | |
| SBC8-470-372 | 47±10% | 0.04 | 3.70 | 5.10 | 5.40 | ○ | |
| SBC8-680-322 | 68±10% | 0.06 | 3.20 | 4.40 | 4.30 | ○ | |
| SBC8-101-242 | 100±10% | 0.09 | 2.40 | 3.30 | 3.50 | ○ | |
| SBC8-151-202 | 150±10% | 0.15 | 2.00 | 2.80 | 3.00 | ○ | |
| SBC8-221-182 | 220±10% | 0.17 | 1.80 | 2.50 | 2.40 | ○ | |
| SBC8-331-142 | 330±10% | 0.25 | 1.40 | 1.90 | 2.00 | ○ | |
| SBC8-471-112 | 470±10% | 0.42 | 1.10 | 1.50 | 1.60 | ○ | |
| SBC8-681-102 | 680±10% | 0.52 | 1.00 | 1.40 | 1.30 | ○ | |
| SBC8-102-761 | 1000±10% | 0.78 | 0.76 | 1.00 | 1.10 | ○ | |
| SBC8-152-581 | 1500±10% | 1.30 | 0.58 | 0.81 | 0.92 | | ○ |
| SBC8-222-471 | 2200±10% | 1.80 | 0.47 | 0.67 | 0.78 | | ○ |
| SBC8-332-421 | 3300±10% | 2.50 | 0.42 | 0.58 | 0.63 | | ○ |
| SBC8-472-391 | 4700±10% | 3.20 | 0.39 | 0.54 | 0.53 | | ○ |
| SBC8-682-311 | 6800±10% | 4.90 | 0.31 | 0.43 | 0.44 | | ○ |
| SBC8-103-251 | 10000±10% | 6.90 | 0.25 | 0.35 | 0.36 | | ○ |

Package: Soft lead · bulk 900pcs/box
Pin lead · bulk 1,000pcs/box

●SBC9Series (SBC9-□□□-○○○)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | | Terminal | |
|--------------|----------------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------|----------|
| | | | | ΔT=40°C | L change rate=10% | Soft lead | Pin lead |
| SBC9-1R0-982 | 1.0±20% | 0.01 | 9.80 | 13.70 | 31.10 | ○ | |
| SBC9-1R5-942 | 1.5±20% | 0.01 | 9.40 | 13.10 | 25.40 | ○ | |
| SBC9-2R2-792 | 2.2±20% | 0.01 | 7.90 | 11.00 | 21.50 | ○ | |
| SBC9-3R3-622 | 3.3±20% | 0.02 | 6.20 | 8.60 | 16.40 | ○ | |
| SBC9-4R7-562 | 4.7±20% | 0.02 | 5.60 | 7.80 | 14.70 | ○ | |
| SBC9-6R8-492 | 6.8±20% | 0.03 | 4.90 | 6.80 | 12.10 | ○ | |
| SBC9-100-422 | 10±20% | 0.03 | 4.20 | 5.80 | 9.60 | ○ | |
| SBC9-150-362 | 15±20% | 0.04 | 3.60 | 5.00 | 7.50 | ○ | |
| SBC9-220-312 | 22±20% | 0.04 | 3.10 | 4.30 | 6.20 | ○ | |
| SBC9-330-252 | 33±20% | 0.06 | 2.50 | 3.50 | 5.20 | ○ | |
| SBC9-470-202 | 47±10% | 0.09 | 2.00 | 2.80 | 4.30 | ○ | |
| SBC9-680-152 | 68±10% | 0.15 | 1.50 | 2.10 | 3.70 | ○ | |
| SBC9-101-122 | 100±10% | 0.21 | 1.20 | 1.60 | 3.00 | ○ | |
| SBC9-151-112 | 150±10% | 0.26 | 1.10 | 1.50 | 2.40 | ○ | |
| SBC9-221-821 | 220±10% | 0.41 | 0.82 | 1.10 | 2.00 | ○ | |
| SBC9-331-671 | 330±10% | 0.58 | 0.67 | 0.93 | 1.60 | ○ | |
| SBC9-471-601 | 470±10% | 0.82 | 0.60 | 0.84 | 1.30 | | ○ |
| SBC9-681-551 | 680±10% | 1.05 | 0.55 | 0.77 | 1.10 | | ○ |
| SBC9-102-451 | 1000±10% | 1.53 | 0.45 | 0.63 | 0.87 | | ○ |
| SBC9-152-341 | 1500±10% | 2.49 | 0.34 | 0.47 | 0.72 | | ○ |
| SBC9-222-271 | 2200±10% | 3.78 | 0.27 | 0.38 | 0.60 | | ○ |
| SBC9-332-221 | 3300±10% | 5.68 | 0.22 | 0.31 | 0.48 | | ○ |
| SBC9-472-181 | 4700±10% | 8.20 | 0.18 | 0.25 | 0.40 | | ○ |
| SBC9-682-141 | 6800±10% | 12.70 | 0.14 | 0.20 | 0.34 | | ○ |
| SBC9-103-121 | 10000±10% | 16.10 | 0.12 | 0.17 | 0.28 | | ○ |

Package: Bulk 2,000pcs/box

●Operating temperature range: -20 to +105°C (Including self-temperature rise)

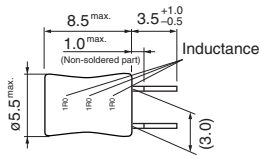


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Shape and Dimensions

●SBC1Series (SBC1-□□□-○○○)

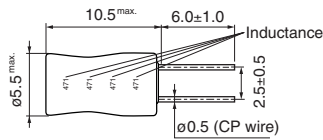
[Soft leads]



| Model | Lead diam. |
|--------------|------------|
| SBC1-1R0-312 | ø0.30 |
| SBC1-1R5-292 | ø0.30 |
| SBC1-2R2-272 | ø0.30 |
| SBC1-3R3-232 | ø0.30 |
| SBC1-4R7-202 | ø0.30 |
| SBC1-6R8-182 | ø0.30 |
| SBC1-100-172 | ø0.30 |
| SBC1-150-162 | ø0.30 |
| SBC1-220-132 | ø0.28 |
| SBC1-330-102 | ø0.24 |

*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

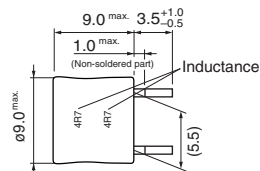
[Hard leads]



*Lead pitch is a value at the root end.
*With phenolic resin base.

●SBC3Series (SBC3-□□□-○○○)

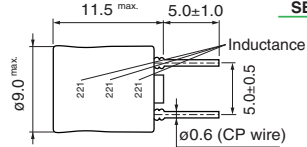
[Soft leads]



| Model | Lead diam. |
|--------------|------------|
| SBC3-1R2-752 | ø0.80 |
| SBC3-1R5-632 | ø0.70 |
| SBC3-2R2-602 | ø0.70 |
| SBC3-3R3-472 | ø0.60 |
| SBC3-4R7-422 | ø0.60 |
| SBC3-6R8-392 | ø0.60 |
| SBC3-100-362 | ø0.60 |
| SBC3-150-232 | ø0.50 |
| SBC3-220-202 | ø0.45 |
| SBC3-330-172 | ø0.40 |
| SBC3-470-142 | ø0.40 |
| SBC3-680-112 | ø0.35 |
| SBC3-101-961 | ø0.32 |
| SBC3-151-791 | ø0.30 |

*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

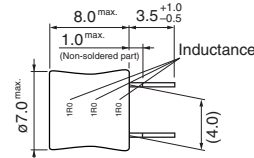
[Hard leads]



*Lead pitch is a value at the root end.
*With phenolic resin base.

●SBC2Series (SBC2-□□□-○○○)

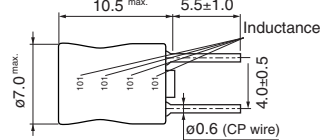
[Soft leads]



| Model | Lead diam. |
|--------------|------------|
| SBC2-1R0-612 | ø0.60 |
| SBC2-1R5-402 | ø0.50 |
| SBC2-3R3-352 | ø0.45 |
| SBC2-4R7-262 | ø0.40 |
| SBC2-6R8-242 | ø0.40 |
| SBC2-100-212 | ø0.40 |
| SBC2-150-162 | ø0.35 |
| SBC2-220-132 | ø0.32 |
| SBC2-330-112 | ø0.28 |
| SBC2-470-951 | ø0.28 |
| SBC2-680-871 | ø0.28 |

*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

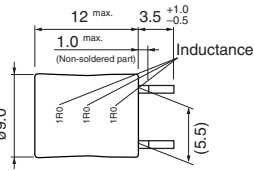
[Hard leads]



*Lead pitch is a value at the root end.
*With phenolic resin base.

●SBC4Series (SBC4-□□□-○○○)

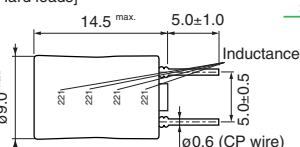
[Soft leads]



| Model | Lead diam. |
|--------------|------------|
| SBC4-1R0-742 | ø0.80 |
| SBC4-1R5-712 | ø0.80 |
| SBC4-2R7-662 | ø0.80 |
| SBC4-3R3-642 | ø0.80 |
| SBC4-4R7-582 | ø0.70 |
| SBC4-6R8-452 | ø0.60 |
| SBC4-100-292 | ø0.50 |
| SBC4-150-232 | ø0.45 |
| SBC4-220-202 | ø0.45 |
| SBC4-330-182 | ø0.45 |
| SBC4-470-162 | ø0.45 |
| SBC4-680-122 | ø0.35 |
| SBC4-101-102 | ø0.32 |
| SBC4-151-861 | ø0.32 |

*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

[Hard leads]



*Lead pitch is a value at the root end.
*With phenolic resin base.

[mm]

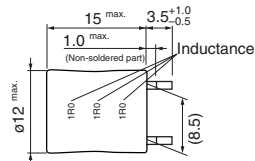


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Shape and Dimensions

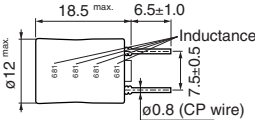
●SBC6Series (SBC6-□□□-○○○)

[Soft leads]



*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

[Hard leads]

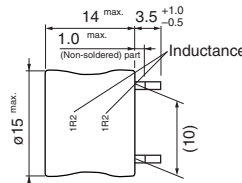


*Lead pitch is a value at the root end.
*With phenolic resin base.

| Model | Lead diam. |
|--------------|------------|
| SBC6-1R0-962 | ø1.20 |
| SBC6-1R5-942 | ø1.20 |
| SBC6-2R7-872 | ø1.20 |
| SBC6-3R3-852 | ø1.20 |
| SBC6-4R7-802 | ø1.20 |
| SBC6-6R8-662 | ø1.00 |
| SBC6-100-462 | ø0.80 |
| SBC6-150-382 | ø0.70 |
| SBC6-220-302 | ø0.60 |
| SBC6-330-272 | ø0.60 |
| SBC6-470-232 | ø0.60 |
| SBC6-680-222 | ø0.60 |
| SBC6-101-172 | ø0.55 |
| SBC6-151-122 | ø0.45 |
| SBC6-221-112 | ø0.40 |
| SBC6-331-871 | ø0.40 |
| SBC6-471-701 | ø0.35 |

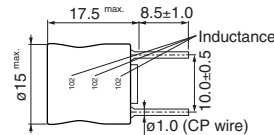
●SBC7Series (SBC7-□□□-○○○)

[Soft leads]



*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

[Hard leads]

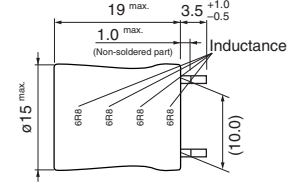


*Lead pitch is a value at the root end.
*With phenolic resin base.

| Model | Lead diam. |
|--------------|------------|
| SBC7-6R8-612 | ø0.90 |
| SBC7-100-532 | ø0.90 |
| SBC7-150-482 | ø0.90 |
| SBC7-220-432 | ø0.90 |
| SBC7-330-342 | ø0.80 |
| SBC7-470-282 | ø0.70 |
| SBC7-680-222 | ø0.60 |
| SBC7-101-192 | ø0.60 |
| SBC7-151-172 | ø0.60 |
| SBC7-221-132 | ø0.50 |
| SBC7-331-941 | ø0.40 |
| SBC7-471-851 | ø0.40 |
| SBC7-681-701 | ø0.35 |

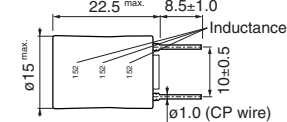
●SBC8Series (SBC8-□□□-○○○)

[Soft leads]



*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

[Hard leads]

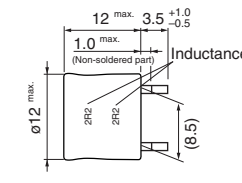


*Lead pitch is a value at the root end.
*With phenolic resin base.

| Model | Lead diam. |
|--------------|------------|
| SBC8-6R8-862 | ø1.20 |
| SBC8-100-692 | ø1.00 |
| SBC8-150-532 | ø0.90 |
| SBC8-220-492 | ø0.90 |
| SBC8-330-452 | ø0.90 |
| SBC8-470-372 | ø0.90 |
| SBC8-680-322 | ø0.80 |
| SBC8-101-242 | ø0.70 |
| SBC8-151-202 | ø0.60 |
| SBC8-221-182 | ø0.60 |
| SBC8-331-142 | ø0.55 |
| SBC8-471-112 | ø0.45 |
| SBC8-681-102 | ø0.45 |
| SBC8-102-761 | ø0.40 |

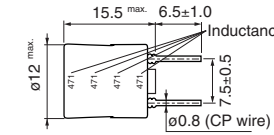
●SBC9Series (SBC9-□□□-○○○)

[Soft leads]



*Lead pitch is a reference value at the root end.
*Integrated soft/hard lead structure.

[Hard leads]



*Lead pitch is a value at the root end.
*With phenolic resin base.

| Model | Lead diam. |
|--------------|------------|
| SBC9-1R0-982 | ø1.20 |
| SBC9-1R5-942 | ø1.20 |
| SBC9-2R2-792 | ø1.00 |
| SBC9-3R3-622 | ø0.90 |
| SBC9-4R7-562 | ø0.80 |
| SBC9-6R8-492 | ø0.70 |
| SBC9-100-422 | ø0.70 |
| SBC9-150-362 | ø0.70 |
| SBC9-220-312 | ø0.70 |
| SBC9-330-252 | ø0.60 |
| SBC9-470-202 | ø0.55 |
| SBC9-680-152 | ø0.45 |
| SBC9-101-122 | ø0.40 |
| SBC9-151-112 | ø0.40 |
| SBC9-221-821 | ø0.35 |
| SBC9-331-671 | ø0.32 |

[mm]

Numbering System

SBC 1 - 101 - 571

① ② ③ ④

| Model | Core size [mm] |
|-------------|----------------|
| SBC1 Series | ø4.5× 6.5 |
| SBC2 Series | ø6.0× 6.0 |
| SBC3 Series | ø8.0× 7.0 |
| SBC4 Series | ø8.0×10.0 |
| SBC6 Series | ø11.0×13.0 |
| SBC7 Series | ø14.0×12.0 |
| SBC8 Series | ø14.0×17.0 |
| SBC9 Series | ø11.0×10.0 |

① Series
② Core size

Model numbers and Core sizes

The model numbers are classified according to core size as shown below.

③ Inductance: $10 \times 10^3 = 1000 (\mu\text{H})$

④ Rated current: $57 \times 10^1 = 570 (\text{mA})$

*The presence of an external tube may not be indicated on the surface of sample products.



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SBCP-47HY Coils

[RoHS Compliant]



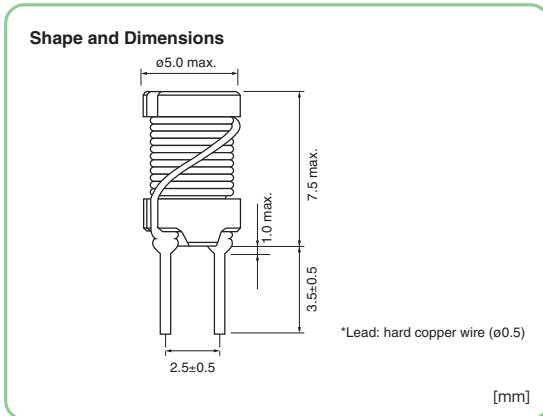
●SBCP-47HY Series (SBCP-47HY□□□B)

| Model | Inductance at 10 kHz, 1mA (μH) | DC resistance (Ω) max. | Rated current (A) | Current (Reference value) (A) | | |
|---------------|-----------------------------------|------------------------------|----------------------|----------------------------------|---------|--------------|
| | | | | ΔT=20°C | ΔT=40°C | L-10% (85°C) |
| SBCP-47HY1R2B | 1.2±20% | 21m | 3.00 | 3.02 | 4.26 | 4.16 |
| SBCP-47HY1R5B | 1.5±20% | 24m | 2.85 | 2.85 | 4.01 | 3.67 |
| SBCP-47HY2R2B | 2.2±20% | 29m | 2.60 | 2.59 | 3.66 | 3.20 |
| SBCP-47HY2R7B | 2.7±20% | 32m | 2.45 | 2.47 | 3.48 | 2.92 |
| SBCP-47HY3R3B | 3.3±20% | 37m | 2.30 | 2.28 | 3.21 | 2.70 |
| SBCP-47HY3R9B | 3.9±20% | 40m | 2.15 | 2.18 | 3.08 | 2.51 |
| SBCP-47HY4R7B | 4.7±20% | 43m | 2.10 | 2.10 | 2.96 | 2.30 |
| SBCP-47HY5R6B | 5.6±20% | 49m | 1.95 | 1.99 | 2.80 | 2.04 |
| SBCP-47HY6R8B | 6.8±20% | 52m | 1.90 | 1.92 | 2.71 | 1.93 |
| SBCP-47HY8R2B | 8.2±20% | 59m | 1.70 | 1.81 | 2.55 | 1.74 |
| SBCP-47HY100B | 10±20% | 67m | 1.60 | 1.69 | 2.38 | 1.60 |
| SBCP-47HY120B | 12±20% | 76m | 1.40 | 1.59 | 2.24 | 1.41 |
| SBCP-47HY150B | 15±20% | 87m | 1.25 | 1.48 | 2.09 | 1.26 |
| SBCP-47HY220B | 22±20% | 123m | 1.05 | 1.24 | 1.75 | 1.04 |
| SBCP-47HY270B | 27±20% | 137m | 0.96 | 1.18 | 1.66 | 0.96 |
| SBCP-47HY330B | 33±20% | 169m | 0.87 | 1.06 | 1.50 | 0.87 |
| SBCP-47HY390B | 39±20% | 213m | 0.79 | 1.95 | 1.33 | 0.79 |
| SBCP-47HY470B | 47±10% | 267m | 0.73 | 0.84 | 1.19 | 0.73 |
| SBCP-47HY560B | 56±10% | 350m | 0.65 | 0.65 | 0.87 | 0.66 |
| SBCP-47HY680B | 68±10% | 397m | 0.60 | 0.61 | 0.81 | 0.60 |
| SBCP-47HY820B | 82±10% | 519m | 0.53 | 0.53 | 0.71 | 0.55 |
| SBCP-47HY101B | 100±10% | 584m | 0.50 | 0.50 | 0.67 | 0.50 |
| SBCP-47HY121B | 120±10% | 657m | 0.45 | 0.47 | 0.63 | 0.45 |
| SBCP-47HY151B | 150±10% | 878m | 0.41 | 0.41 | 0.55 | 0.41 |
| SBCP-47HY221B | 220±10% | 1.10 | 0.33 | 0.36 | 0.48 | 0.33 |
| SBCP-47HY271B | 270±10% | 1.30 | 0.30 | 0.34 | 0.45 | 0.30 |
| SBCP-47HY331B | 330±10% | 1.80 | 0.27 | 0.29 | 0.39 | 0.27 |
| SBCP-47HY391B | 390±10% | 2.00 | 0.25 | 0.26 | 0.36 | 0.25 |
| SBCP-47HY471B | 470±10% | 2.80 | 0.22 | 0.22 | 0.31 | 0.23 |
| SBCP-47HY561B | 560±10% | 3.10 | 0.21 | 0.21 | 0.29 | 0.21 |
| SBCP-47HY681B | 680±10% | 3.50 | 0.19 | 0.20 | 0.28 | 0.19 |
| SBCP-47HY821B | 820±10% | 5.30 | 0.16 | 0.16 | 0.22 | 0.17 |
| SBCP-47HY102B | 1000±10% | 6.00 | 0.15 | 0.15 | 0.21 | 0.16 |

Package: Bulk · 6,000pcs/box
 Tape & reel · 1,000pcs/AMMO pack · 4,000pcs/box
 Operating temperature range: -20 to +105°C (including the heat generation by the coil)



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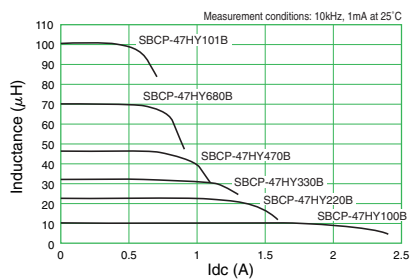
Numbering System

SBCP - 47HY 150 B

① ② ③ ④

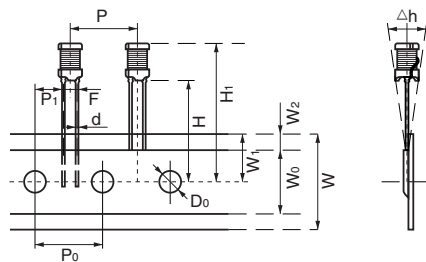
- ① Series
- ② Core size : Outer size x height (φ4.5×7)
- ③ Inductance : $15 \times 10^3 = 15 (\mu\text{H})$
- ④ Packaging type : (B) indicates bulk type.
No indication for tape type.

DC-Superposed Characteristics



SBCP-47HY Series

Dimensions of indented square hole plastic tape



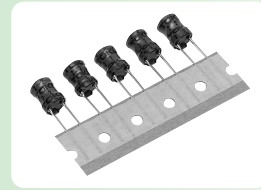
| [mm] | | | | | | | | | | | | |
|------|----------------|----------------|------|-----------------|------------------|----------------|----------------|------|----------------|----------------|------|----|
| P | P ₀ | P ₁ | F | W | W ₀ | W ₁ | W ₂ | H | H ₁ | D ₀ | d | Δh |
| ±1.0 | ±0.3 | ±0.7 | ±0.5 | +1.0, -0.5 min. | +0.75, -0.5 max. | +2.0, -0 max. | ±0.2 | ±0.2 | ±2.0 | ±0.2 | ±2.0 | 0 |
| 12.7 | 12.7 | 5.1 | 2.5 | 18 | 12.5 | 9.0 | 3.0 | 18 | 29.5 | ø4.0 | ø0.5 | 0 |



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SBCP-87HY Coils

[RoHS Compliant]



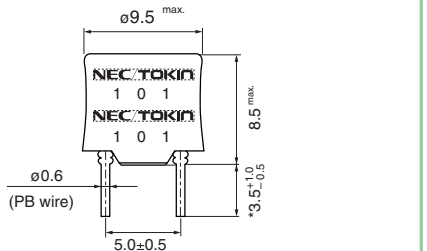
● SBCP-87HY Series (SBCP-87HY□□□H)

| Model | Inductance at 10 kHz, 1mA L (μH) | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | |
|---------------|----------------------------------|------------------------|---------------------------|-------------------------------|-------------------|
| | | | | ΔT=40°C | L change rate=10% |
| SBCP-87HY1R0H | 1.0±30% | 0.02 | 4.50 | 6.30 | 10.20 |
| SBCP-87HY1R5H | 1.5±30% | 0.02 | 4.20 | 5.80 | 7.00 |
| SBCP-87HY2R2H | 2.2±30% | 0.03 | 4.00 | 5.60 | 6.10 |
| SBCP-87HY3R3H | 3.3±30% | 0.03 | 3.20 | 4.40 | 4.80 |
| SBCP-87HY4R7H | 4.7±20% | 0.03 | 3.20 | 4.40 | 4.30 |
| SBCP-87HY6R8H | 6.8±20% | 0.04 | 2.80 | 3.90 | 3.40 |
| SBCP-87HY100H | 10±20% | 0.05 | 2.30 | 3.20 | 2.40 |
| SBCP-87HY150H | 15±20% | 0.06 | 2.10 | 2.90 | 2.20 |
| SBCP-87HY220H | 22±20% | 0.08 | 1.90 | 2.60 | 1.80 |
| SBCP-87HY330H | 33±20% | 0.12 | 1.50 | 2.10 | 1.50 |
| SBCP-87HY470H | 47±20% | 0.15 | 1.30 | 1.80 | 1.20 |
| SBCP-87HY680H | 68±10% | 0.19 | 1.16 | 1.60 | 1.00 |
| SBCP-87HY820H | 82±10% | 0.23 | 1.10 | 1.50 | 0.94 |
| SBCP-87HY101H | 100±10% | 0.30 | 0.90 | 1.20 | 0.87 |
| SBCP-87HY151H | 150±10% | 0.39 | 0.79 | 1.10 | 0.70 |
| SBCP-87HY221H | 220±10% | 0.57 | 0.65 | 0.91 | 0.57 |
| SBCP-87HY331H | 330±10% | 0.92 | 0.50 | 0.70 | 0.47 |
| SBCP-87HY471H | 470±10% | 1.30 | 0.42 | 0.58 | 0.39 |
| SBCP-87HY681H | 680±10% | 1.66 | 0.33 | 0.46 | 0.32 |
| SBCP-87HY102H | 1000±10% | 2.82 | 0.25 | 0.35 | 0.27 |

Package: Soft lead · bulk 4,000pcs/box
Pin lead · bulk 500pcs/AMMO pack, 2,000pcs/box

Shape and Dimensions

● SBCP-87HY Series (SBCP-87HY□□□H)



* For bulk type
* Lead pitch is value at the root end. [mm]

Numbering System

SBCP - 87HY - 101 H B
① ② ③ ④ ⑤

- ① Series
- ② Core size (Outer size x height)

Model numbers and Core sizes

The model number (5 digits) consists of core size and inductance as shown below.

| Model | Core size [mm] |
|---------------|----------------|
| SBCP-87HY□□□H | ø8.0 × 7.5 |

- ③ Inductance: $\overset{\vee}{1}0 \times 10^{\overset{\vee}{1}} = 100 (\mu H)$
- ④ Presence of external tube: H shows presence.
- ⑤ Packaging type: No indication for tape type. :B: indicates bulk type.

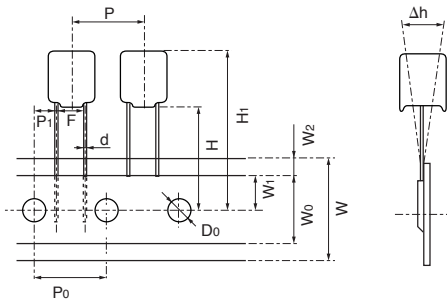
*The presence of an external tube may not be indicated on the surface of sample products.



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SBCP-87HY Series

Dimensions of indented square hole plastic tape



| P | P ₀ | P ₁ | F | W | W ₀ | W ₁ | W ₂ | H | D ₀ | d | Δh |
|------|----------------|----------------|------|-----------------|------------------|----------------|----------------|----|----------------|-----|----|
| ±1.0 | ±0.3 | ±0.7 | ±1.0 | +1.0, -0.5 min. | +0.75, -0.5 max. | +2.0, -0 | ±0.2 | | | | |
| 12.7 | 12.7 | 3.85 | 5.0 | 18 | 12.5 | 9.0 | 3.0 | 18 | ø4.0 | 0.6 | 0 |

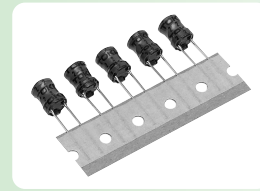
| [mm] | |
|-----------------|--|
| H1 | |
| SBCP-87HY □□□ H | |
| max. | |
| 28.5 | |



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SBCP-80HY Coils

[RoHS Compliant]



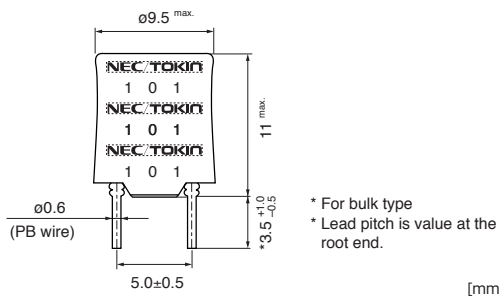
●SBCP-80HY Series (SBCP-80HY□□□H)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | |
|---------------|----------------------------------|------------------------|---------------------------|-------------------------------|-------------------|
| | | | | ΔT=40°C | L change rate-10% |
| SBCP-80HY1R5H | 1.5±30% | 0.02 | 4.50 | 6.30 | 13.50 |
| SBCP-80HY2R2H | 2.2±30% | 0.03 | 4.00 | 5.60 | 11.70 |
| SBCP-80HY3R3H | 3.3±30% | 0.04 | 3.60 | 5.00 | 9.20 |
| SBCP-80HY4R7H | 4.7±20% | 0.04 | 3.30 | 4.60 | 7.60 |
| SBCP-80HY6R8H | 6.8±20% | 0.05 | 3.30 | 4.60 | 6.50 |
| SBCP-80HY100H | 10±20% | 0.05 | 2.90 | 4.00 | 5.30 |
| SBCP-80HY150H | 15±20% | 0.08 | 2.50 | 3.50 | 4.00 |
| SBCP-80HY220H | 22±20% | 0.08 | 2.40 | 3.30 | 3.40 |
| SBCP-80HY330H | 33±20% | 0.09 | 2.10 | 2.90 | 2.70 |
| SBCP-80HY470H | 47±10% | 0.13 | 1.90 | 2.60 | 2.20 |
| SBCP-80HY680H | 68±10% | 0.16 | 1.70 | 2.30 | 1.80 |
| SBCP-80HY820H | 82±10% | 0.24 | 1.30 | 1.80 | 1.70 |
| SBCP-80HY101H | 100±10% | 0.35 | 1.10 | 1.50 | 1.60 |
| SBCP-80HY151H | 150±10% | 0.41 | 1.00 | 1.40 | 1.20 |
| SBCP-80HY221H | 220±10% | 0.52 | 0.90 | 1.20 | 1.00 |
| SBCP-80HY331H | 330±10% | 0.75 | 0.70 | 0.98 | 0.85 |
| SBCP-80HY471H | 470±10% | 0.95 | 0.65 | 0.91 | 0.71 |
| SBCP-80HY681H | 680±10% | 1.40 | 0.50 | 0.70 | 0.58 |
| SBCP-80HY102H | 1000±10% | 1.89 | 0.40 | 0.56 | 0.48 |

Package: Bulk - 4,000pcs/box
Tape & reel - 500pcs/AMMO pack 2,000pcs/box

Shape and Dimensions

●SBCP-80HY Series (SBCP-80HY□□□H)



Numbering System

SBCP - 80HY - 101 H B
① ② ③ ④ ⑤

- ① Series
- ② Core size (Outer size x height)

Model numbers and Core sizes

The model number (5 digits) consists of core size and inductance as shown below.

| Model | Core size [mm] |
|---------------|----------------|
| SBCP-80HY□□□H | ø8.0 × 10.0 |

- ③ Inductance: $10 \times 10^1 = 100$ (μH)
- ④ Presence of external tube: H shows presence.
- ⑤ Packaging type: No indication for tape type. :B; indicates bulk type.

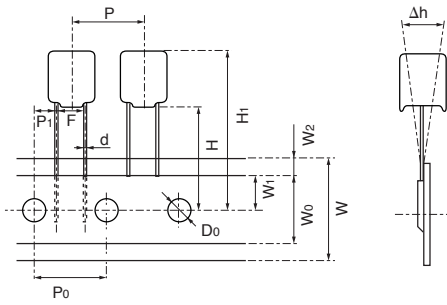
*The presence of an external tube may not be indicated on the surface of sample products.



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SBCP-80HY Series

Dimensions of indented square hole plastic tape



| | | | | | | | | | | | | | [mm] |
|------|----------------|----------------|------|-----------------|------------------|----------------|----------------|----------|----------------|-----|------|--|------|
| P | P ₀ | P ₁ | F | W | W ₀ | W ₁ | W ₂ | H | D ₀ | d | Δh | | |
| ±1.0 | ±0.3 | ±0.7 | ±1.0 | +1.0, -0.5 min. | +0.75, -0.5 max. | | | +2.0, -0 | ±0.2 | | ±2.0 | | |
| 12.7 | 12.7 | 3.85 | 5.0 | 18 | 12.5 | 9.0 | 3.0 | 18 | ∅4.0 | 0.6 | 0 | | |

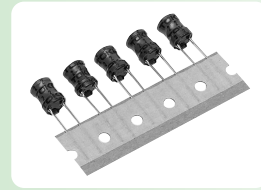
| | [mm] |
|---------------|------|
| H1 | |
| SBCP-80HY□□□H | |
| max. | |
| 31 | |



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SBCP-11HY Coils

[RoHS Compliant]



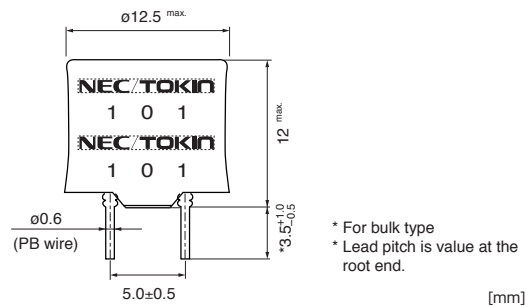
●SBCP-11HY Series (SBCP-11HY□□□H)

| Model | Inductance L (μH) at 10 kHz, 1mA | DC resistance (Ω) max. | Rated current (A) ΔT=20°C | Current (Reference value) (A) | |
|---------------|-------------------------------------|---------------------------|------------------------------|----------------------------------|-------------------|
| | | | | ΔT=40°C | L change rate-10% |
| SBCP-11HY1R5H | 1.5±30% | 0.02 | 5.00 | 7.20 | 25.30 |
| SBCP-11HY2R2H | 2.2±30% | 0.02 | 4.70 | 6.70 | 21.40 |
| SBCP-11HY3R3H | 3.3±20% | 0.02 | 4.40 | 6.30 | 18.50 |
| SBCP-11HY4R7H | 4.7±20% | 0.03 | 4.10 | 5.80 | 14.60 |
| SBCP-11HY6R8H | 6.8±20% | 0.03 | 3.60 | 5.10 | 12.10 |
| SBCP-11HY100H | 10±20% | 0.04 | 3.10 | 4.50 | 9.60 |
| SBCP-11HY150H | 15±20% | 0.05 | 2.80 | 4.10 | 7.90 |
| SBCP-11HY220H | 22±20% | 0.06 | 2.50 | 3.60 | 6.40 |
| SBCP-11HY330H | 33±20% | 0.07 | 2.30 | 3.30 | 5.40 |
| SBCP-11HY470H | 47±20% | 0.10 | 2.00 | 2.90 | 4.40 |
| SBCP-11HY680H | 68±10% | 0.12 | 1.80 | 2.60 | 3.60 |
| SBCP-11HY101H | 100±10% | 0.19 | 1.30 | 1.90 | 3.00 |
| SBCP-11HY151H | 150±10% | 0.26 | 1.10 | 1.60 | 2.40 |
| SBCP-11HY221H | 220±10% | 0.40 | 0.95 | 1.30 | 2.00 |
| SBCP-11HY331H | 330±10% | 0.60 | 0.74 | 1.00 | 1.60 |
| SBCP-11HY471H | 470±10% | 0.76 | 0.66 | 0.93 | 1.40 |
| SBCP-11HY681H | 680±10% | 1.00 | 0.55 | 0.77 | 1.10 |
| SBCP-11HY102H | 1000±10% | 1.70 | 0.42 | 0.60 | 0.96 |

- Package: Bulk · 2,000pcs/box
- Tape & reel · 400pcs/AMMO pack 1,600pcs/box
- Operating temperature range: -20 to +105°C (incl. coil heat)
- Storage conditions: -5 to +40°C, 40to60% RH (in tape status), -20to +85°C (in bulk status)
- Do NOT expose to direct sunlight

Shape and Dimensions

●SBCP-11HY Series (SBCP-11HY□□□H)



Numbering System

SBCP - 11HY - 101 H B
① ② ③ ④ ⑤

- ① Series
- ② Core size (Outer size x height)

Model numbers and Core sizes

The model number (5 digits) consists of core size and inductance as shown below.

| Model | Core size [mm] |
|---------------|----------------|
| SBCP-11HY□□□H | ø11.0×11.0 |

- ③ Inductance: 10×10¹=100 (μH)
- ④ Presence of external tube: H shows presence.
- ⑤ Packaging type: No indication for tape type. :B: indicates bulk type.

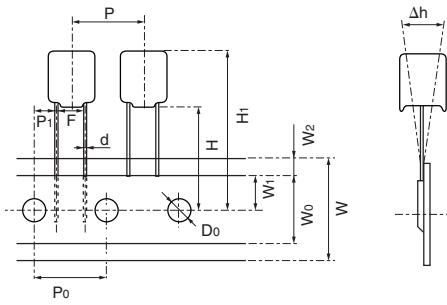
*The presence of an external tube may not be indicated on the surface of sample products.



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SBCP-11HY Series

Dimensions of indented square hole plastic tape



| P | P ₀ | P ₁ | F | W | W ₀ | W ₁ | W ₂ | H | D ₀ | d | Δh |
|------|----------------|----------------|------|-----------------|------------------|----------------|----------------|------|----------------|-----|----|
| ±1.0 | ±0.3 | ±0.7 | ±1.0 | +1.0, -0.5 min. | +0.75, -0.5 max. | +2.0, -0 | ±0.2 | ±2.0 | ±2.0 | 0 | |
| 12.7 | 12.7 | 3.85 | 5.0 | 18 | 12.5 | 9.0 | 3.0 | 18 | ø4.0 | 0.6 | 0 |

| H1 |
|---------------|
| SBCP-11HY□□□H |
| max. |
| 32 |



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SBCP-14HY Coils

[RoHS Compliant]



●SBCP-14 HY Series (SBCP-14HY□□□B)

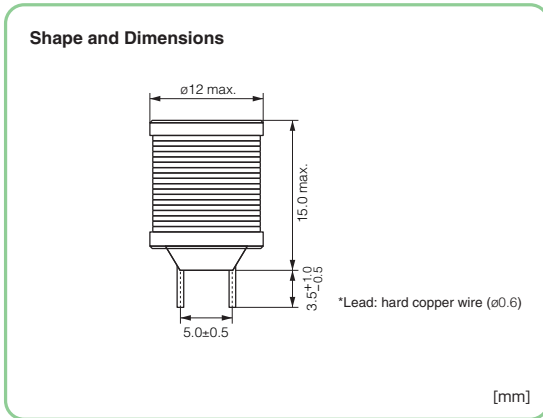
| Model | Inductance at 10 kHz, 1mA (μ H) | DC resistance (Ω) max. | Rated current (A) $\Delta T=20^{\circ}\text{C}$ | Current (Reference value) (A) | |
|---------------|--------------------------------------------|---------------------------------------|-------------------------------------------------------|----------------------------------|-------------------|
| | | | | $\Delta T=40^{\circ}\text{C}$ | L change rate-10% |
| SBCP-14HY1R2B | 1.2 \pm 30% | 20m | 5.20 | 7.40 | 24.30 |
| SBCP-14HY2R2B | 2.2 \pm 30% | 20m | 4.35 | 5.11 | 16.82 |
| SBCP-14HY3R3B | 3.3 \pm 30% | 20m | 4.10 | 6.00 | 18.20 |
| SBCP-14HY4R7B | 4.7 \pm 20% | 30m | 3.60 | 5.07 | 14.36 |
| SBCP-14HY6R8B | 6.8 \pm 20% | 30m | 3.35 | 4.69 | 11.86 |
| SBCP-14HY100B | 10 \pm 20% | 40m | 3.00 | 4.20 | 10.30 |
| SBCP-14HY150B | 15 \pm 20% | 50m | 2.80 | 3.90 | 8.07 |
| SBCP-14HY220B | 22 \pm 20% | 60m | 2.70 | 3.73 | 6.94 |
| SBCP-14HY330B | 33 \pm 20% | 70m | 2.40 | 3.30 | 5.63 |
| SBCP-14HY470B | 47 \pm 10% | 90m | 1.90 | 2.74 | 4.58 |
| SBCP-14HY680B | 68 \pm 10% | 0.11 | 1.70 | 2.45 | 3.76 |
| SBCP-14HY101B | 100 \pm 10% | 0.14 | 1.50 | 2.15 | 3.10 |
| SBCP-14HY151B | 150 \pm 10% | 0.20 | 1.30 | 1.85 | 2.70 |
| SBCP-14HY221B | 220 \pm 10% | 0.31 | 1.05 | 1.51 | 2.20 |
| SBCP-14HY331B | 330 \pm 10% | 0.38 | 0.95 | 1.35 | 1.84 |
| SBCP-14HY471B | 470 \pm 10% | 0.54 | 0.80 | 1.10 | 1.48 |
| SBCP-14HY681B | 680 \pm 10% | 0.90 | 0.67 | 0.93 | 1.24 |
| SBCP-14HY102B | 1000 \pm 10% | 1.16 | 0.59 | 0.82 | 1.01 |
| SBCP-14HY152B | 1500 \pm 10% | 1.52 | 0.47 | 0.67 | 0.80 |
| SBCP-14HY222B | 2200 \pm 10% | 2.36 | 0.38 | 0.54 | 0.69 |
| SBCP-14HY332B | 3300 \pm 10% | 3.42 | 0.33 | 0.46 | 0.57 |
| SBCP-14HY472B | 4700 \pm 10% | 4.97 | 0.27 | 0.38 | 0.48 |
| SBCP-14HY682B | 6800 \pm 10% | 7.17 | 0.22 | 0.29 | 0.38 |
| SBCP-14HY103B | 10000 \pm 10% | 10.86 | 0.17 | 0.24 | 0.31 |

Package: Bulk · 1,500pcs/box

●Operating temperature range: -20 to +105°C(including the heat generation by the coil)



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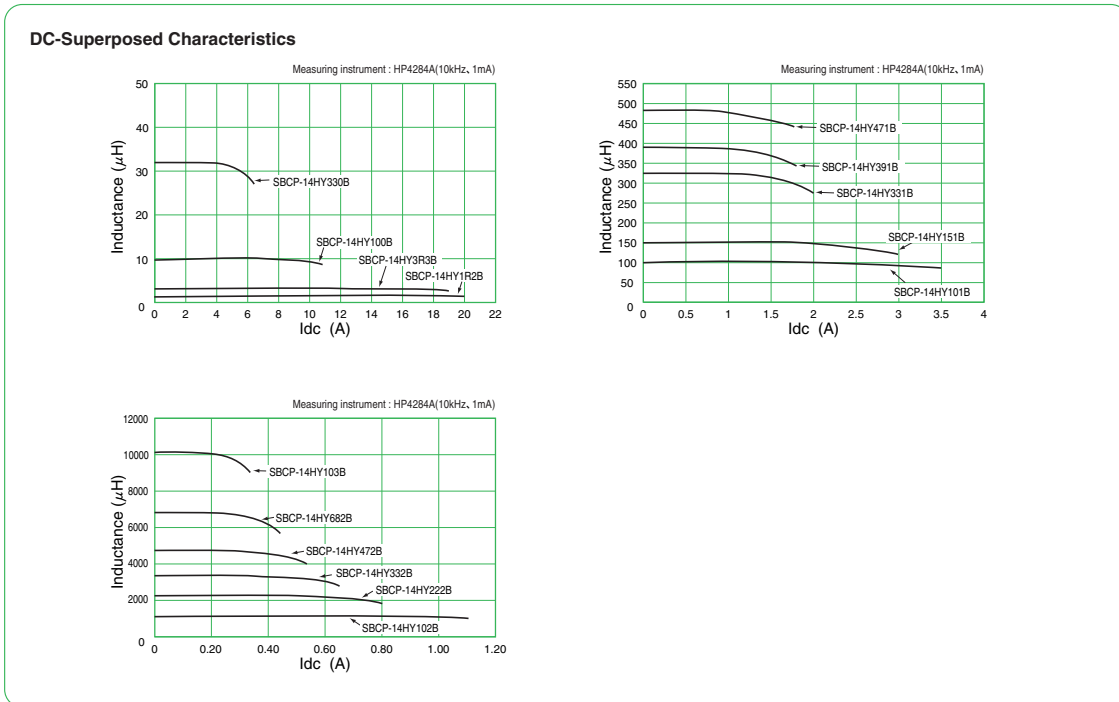


Numbering System

SBCP - 14HY 100 B

① ② ③ ④

- ① Series
- ② Core size : Outer size x height (φ 11 × 14)
- ③ Inductance : $\overset{\cdot\cdot}{1}\overset{\cdot\cdot}{0} \times 10^{\overset{\cdot}{2}} = 10 (\mu\text{H})$
- ④ Packaging type : [B] indicates bulk type.

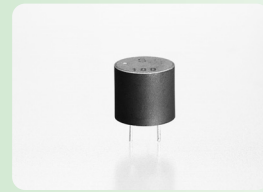


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SBPSC Coils 11R310 · 12R817 Series

〈Magnetically Shielded Type〉

[RoHS Compliant]



●SBPSC-11R310 Series

| Model | Inductance (μH) (100kHz, 1mA) | DC resistance (Ω) max. | Rated Current (A) |
|-------------------|----------------------------------|------------------------|-------------------|
| SBPSC-11R310-100A | 10 ±20% | 36m | 3.80 |
| SBPSC-11R310-120A | 12 ±20% | 48m | 3.40 |
| SBPSC-11R310-150A | 15 ±20% | 51m | 3.30 |
| SBPSC-11R310-220A | 22 ±20% | 87m | 2.85 |
| SBPSC-11R310-270A | 27 ±20% | 106m | 2.40 |
| SBPSC-11R310-330A | 33 ±20% | 132m | 2.10 |
| SBPSC-11R310-390A | 39 ±20% | 141m | 2.05 |
| SBPSC-11R310-470A | 47 ±20% | 181m | 1.80 |
| SBPSC-11R310-560A | 56 ±20% | 200m | 1.75 |
| SBPSC-11R310-680A | 68 ±20% | 221m | 1.65 |
| SBPSC-11R310-820A | 82 ±20% | 251m | 1.55 |
| SBPSC-11R310-101A | 100 ±15% | 272m | 1.45 |
| SBPSC-11R310-121A | 120 ±15% | 299m | 1.40 |
| SBPSC-11R310-151A | 150 ±15% | 390m | 1.15 |
| SBPSC-11R310-221A | 220 ±15% | 736m | 0.94 |
| SBPSC-11R310-271A | 270 ±15% | 839m | 0.88 |
| SBPSC-11R310-331A | 330 ±15% | 936m | 0.84 |
| SBPSC-11R310-391A | 390 ±15% | 1.20 | 0.74 |
| SBPSC-11R310-471A | 470 ±15% | 1.40 | 0.70 |
| SBPSC-11R310-681A | 680 ±15% | 2.00 | 0.48 |
| SBPSC-11R310-821A | 820 ±15% | 2.30 | 0.46 |
| SBPSC-11R310-102A | 1000 ±15% | 2.60 | 0.43 |

Package: Bulk · 1,600pcs/box

●SBPSC-12R817 Series

| Model | Inductance (μH) (100kHz, 1mA) | DC resistance (Ω) max. | Rated Current (A) |
|-------------------|----------------------------------|------------------------|-------------------|
| SBPSC-12R817-100A | 10 ±20% | 29m | 4.70 |
| SBPSC-12R817-120A | 12 ±20% | 32m | 4.40 |
| SBPSC-12R817-150A | 15 ±20% | 35m | 4.20 |
| SBPSC-12R817-220A | 22 ±20% | 43m | 3.90 |
| SBPSC-12R817-270A | 27 ±20% | 48m | 3.60 |
| SBPSC-12R817-330A | 33 ±20% | 52m | 3.50 |
| SBPSC-12R817-390A | 39 ±20% | 58m | 3.30 |
| SBPSC-12R817-470A | 47 ±20% | 61m | 3.20 |
| SBPSC-12R817-560A | 56 ±20% | 66m | 3.10 |
| SBPSC-12R817-680A | 68 ±20% | 75m | 2.90 |
| SBPSC-12R817-820A | 82 ±20% | 96m | 2.50 |
| SBPSC-12R817-101A | 100 ±15% | 0.14 | 2.40 |
| SBPSC-12R817-121A | 120 ±15% | 0.18 | 2.20 |
| SBPSC-12R817-151A | 150 ±15% | 0.26 | 1.65 |
| SBPSC-12R817-221A | 220 ±15% | 0.40 | 1.40 |
| SBPSC-12R817-271A | 270 ±15% | 0.47 | 1.30 |
| SBPSC-12R817-331A | 330 ±15% | 0.53 | 1.20 |
| SBPSC-12R817-391A | 390 ±15% | 0.57 | 1.15 |
| SBPSC-12R817-471A | 470 ±15% | 0.62 | 1.10 |
| SBPSC-12R817-561A | 560 ±15% | 0.70 | 1.00 |
| SBPSC-12R817-681A | 680 ±15% | 0.84 | 0.90 |
| SBPSC-12R817-821A | 820 ±15% | 0.94 | 0.80 |
| SBPSC-12R817-102A | 1000 ±15% | 1.10 | 0.70 |

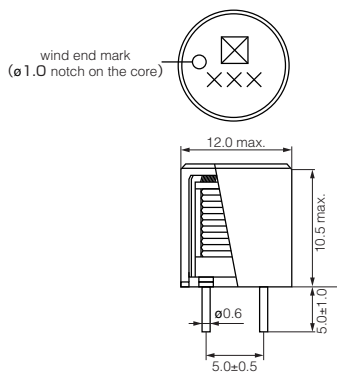
Package: Bulk · 800pcs/box

*The rated current is the lower value of the following two: the DC current value when the inductance decreases 10% from the initial value, or the DC current value when the coil's temperature has rose ΔT=40°C

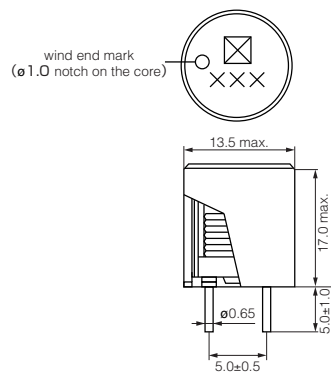
●Operating temperature range: -20 to +105°C (Incl. coil heat)

Shape and Dimensions

●SBPSC-11R310 Series



●SBPSC-12R817 Series



[mm]



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Precautions



- The names of the products and the specifications in this catalog are subject to change without notice for the sake of improvement. The manufacturer also reserves the right to discontinue any of these products. At the time of delivery, please ask for specifications sheets to check the contents in order to use the products properly and safely.
- Descriptions in this catalog regarding product characteristics and quality are based solely on discrete components. When using these components, be sure to check the specifications with the component in question mounted on the products.
- The manufacturer's warranty will not cover any disadvantage or damage caused by improper use of the products that deviates from the characteristics, specifications, or conditions for use described in this catalog.
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[>>KEMET\(基美\)](#)