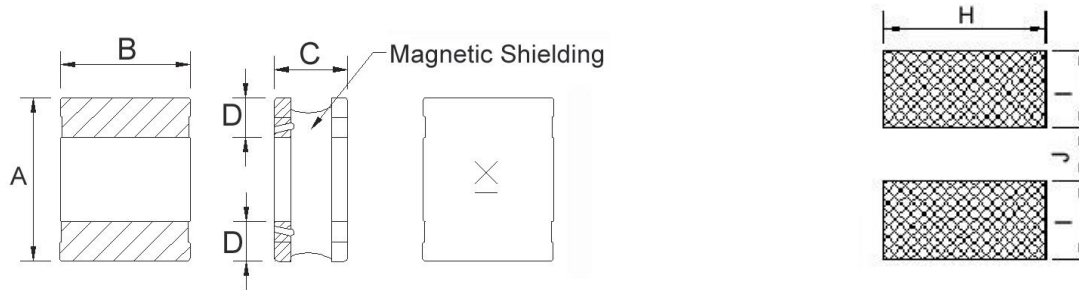


Shape and Dimensions

Recommended Pattern

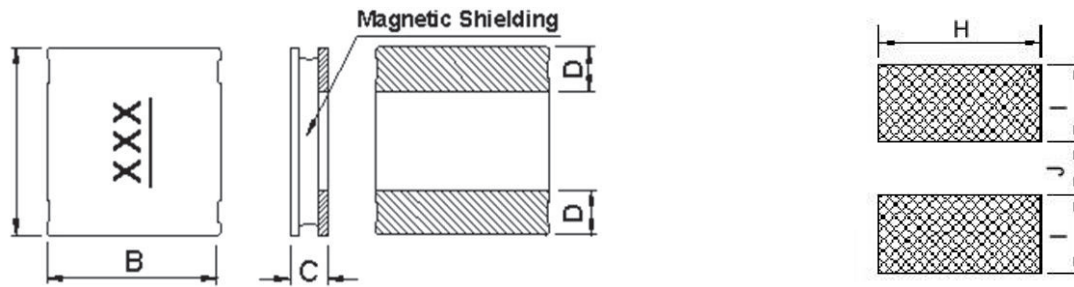
Figure 3



Dimensions in mm

| TYPE | FIG | A | B | C | D | H | I | J |
|--------------|-----|----------|----------|----------|-----|-----|------|-----|
| BWVH00252012 | 3 | 2.5±0.25 | 2.0±0.25 | 1.2±0.05 | 0.8 | 2.2 | 0.85 | 0.8 |

Figure 4



Dimensions in mm

| TYPE | FIG | A | B | C | D | H | I | J |
|--------------|-----|----------|----------|----------|-----|-----|-----|-----|
| BWVH00595610 | 4 | 5.9±0.20 | 5.6±0.20 | 1.00 Max | 1.4 | 5.8 | 1.5 | 3.2 |

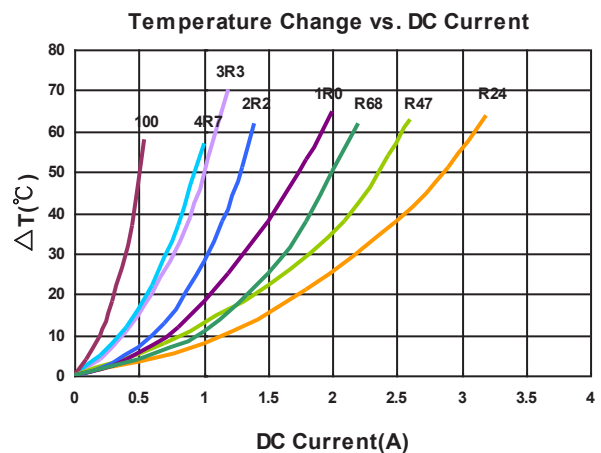
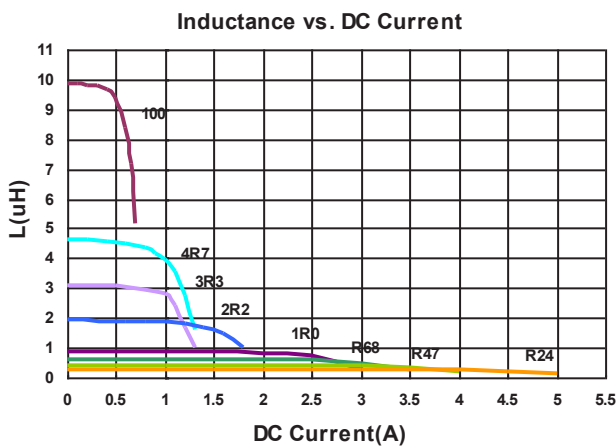
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) |
|--------------------|-----------------|----------------|----------------------|--------------|----------------------|----------------------|
| BWVH00201610R24□H1 | 0.24 | 20, 30 | 1 | 0.048 | 3700(3300) | 2500(2100) |
| BWVH00201610R33□H1 | 0.33 | 20, 30 | 1 | 0.048 | 3400(3000) | 2500(2100) |
| BWVH00201610R47□H1 | 0.47 | 20, 30 | 1 | 0.072 | 2900(2600) | 2100(1800) |
| BWVH00201610R56□H1 | 0.56 | 20, 30 | 1 | 0.072 | 2700(2400) | 2100(1800) |
| BWVH00201610R68□H1 | 0.68 | 20, 30 | 1 | 0.092 | 2500(2200) | 1800(1500) |
| BWVH002016101R0□H1 | 1.0 | 20, 30 | 1 | 0.110 | 2200(2000) | 1500(1200) |
| BWVH002016102R2□H1 | 2.2 | 20, 30 | 1 | 0.205 | 1400(1200) | 1150(970) |
| BWVH002016103R3□H1 | 3.3 | 20, 30 | 1 | 0.380 | 1050(940) | 900(800) |
| BWVH002016104R7□H1 | 4.7 | 20, 30 | 1 | 0.520 | 900(800) | 800(680) |
| BWVH00201610100□H1 | 10 | 20, 30 | 1 | 1.100 | 620(550) | 450(380) |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
- RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
- Isat & I rms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



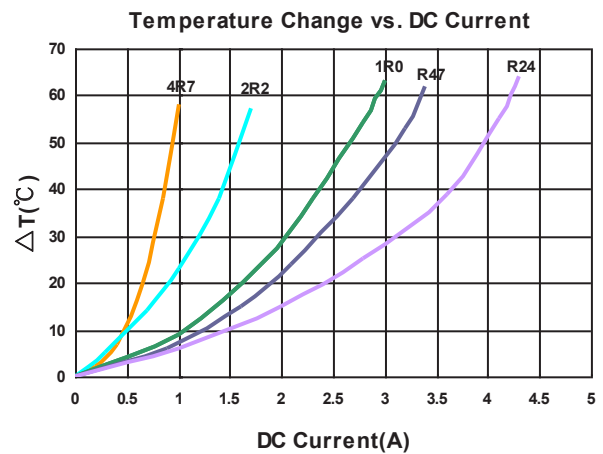
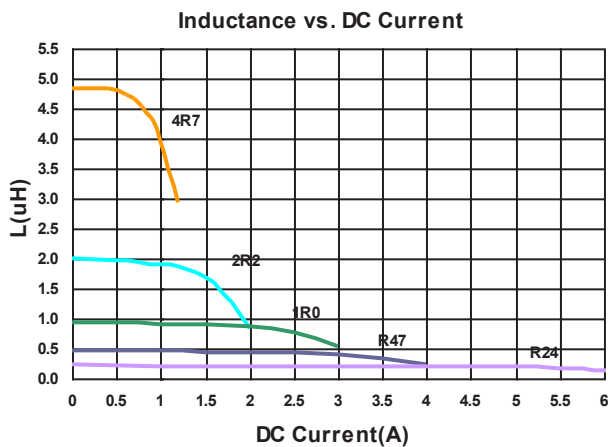
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) |
|--------------------|-----------------|----------------|----------------------|--------------|----------------------|----------------------|
| BWVH00252010R24□H1 | 0.24 | 20, 30 | 1 | 0.030 | 4700(4200) | 3600(3000) |
| BWVH00252010R47□H1 | 0.47 | 20, 30 | 1 | 0.043 | 3300(3000) | 2700(2300) |
| BWVH00252010R68□H1 | 0.68 | 20, 30 | 1 | 0.062 | 2800(2500) | 2300(1900) |
| BWVH002520101R0□H1 | 1.0 | 20, 30 | 1 | 0.080 | 2300(2100) | 1900(1600) |
| BWVH002520102R2□H1 | 2.2 | 20, 30 | 1 | 0.135 | 1600(1400) | 1400(1100) |
| BWVH002520104R7□H1 | 4.7 | 20, 30 | 1 | 0.330 | 1000(900) | 850(720) |
| BWVH00252010100□H1 | 10 | 20, 30 | 1 | 0.670 | 720(640) | 580(490) |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
- RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
- Isat & I rms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



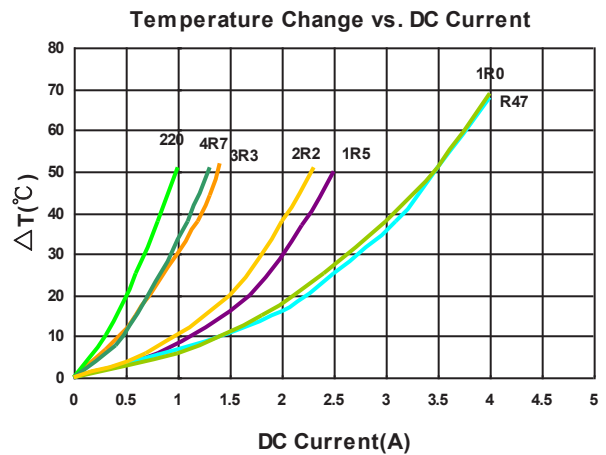
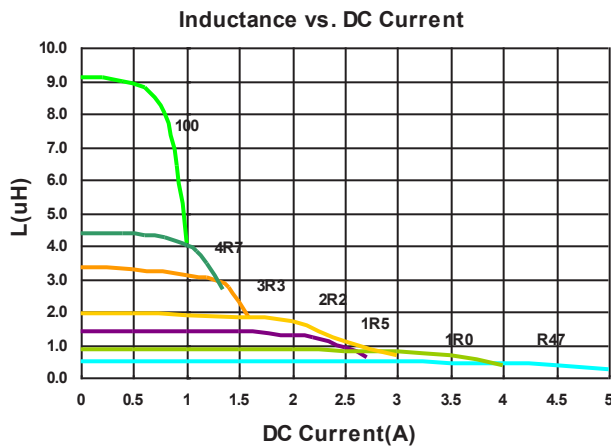
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) |
|--------------------|-----------------|----------------|----------------------|--------------|----------------------|----------------------|
| BWVH00252012R47□H1 | 0.47 | 20, 30 | 1 | 0.031 | 4100(3700) | 3100(2600) |
| BWVH00252012R68□H1 | 0.68 | 20, 30 | 1 | 0.031 | 3100(2900) | 3100(2600) |
| BWVH002520121R0□H1 | 1.0 | 20, 30 | 1 | 0.049 | 3200(3000) | 3000(2500) |
| BWVH002520121R5□H1 | 1.5 | 20, 30 | 1 | 0.088 | 2300(2100) | 2200(1800) |
| BWVH002520122R2□H1 | 2.2 | 20, 30 | 1 | 0.099 | 2200(2000) | 2000(1700) |
| BWVH002520123R3□H1 | 3.3 | 20, 30 | 1 | 0.190 | 1400(1200) | 1200(1000) |
| BWVH002520124R7□H1 | 4.7 | 20, 30 | 1 | 0.235 | 1300(1100) | 1100(930) |
| BWVH00252012100□H1 | 10 | 20, 30 | 1 | 0.510 | 920(820) | 800(680) |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 - L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
 - RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat & I rms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



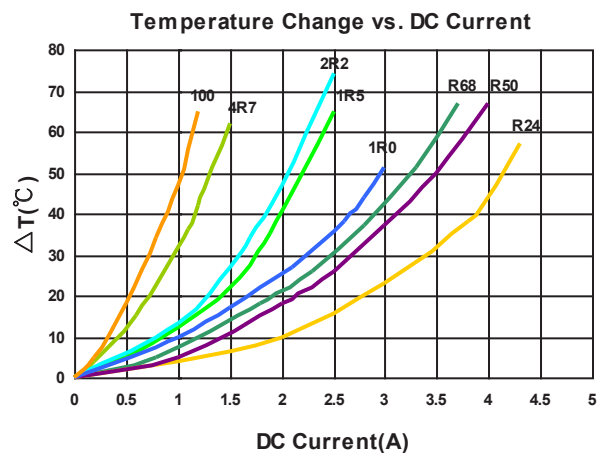
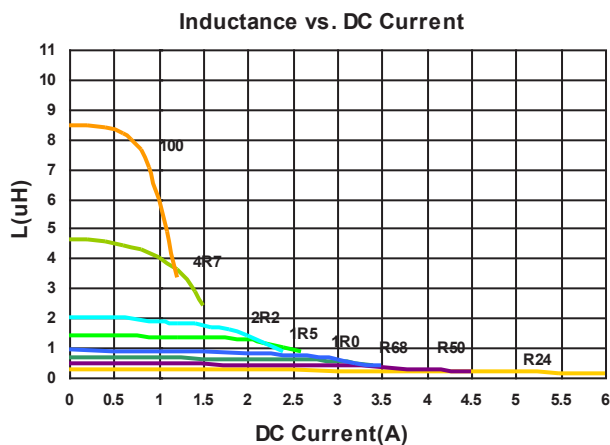
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|--------------------|-----------------|----------------|----------------------|--------------|----------------------|----------------------|---------|
| BWVH00252012R24□00 | 0.24 | 20, 30 | 1 | 0.021 | 4700(4200) | 3800(3200) | E |
| BWVH00252012R33□00 | 0.33 | 20, 30 | 1 | 0.027 | 4200(3700) | 3000(2500) | G |
| BWVH00252012R47□00 | 0.47 | 20, 30 | 1 | 0.027 | 3600(3400) | 3000(2500) | J |
| BWVH00252012R50□00 | 0.50 | 20, 30 | 1 | 0.027 | 3600(3400) | 3000(2500) | D |
| BWVH00252012R68□00 | 0.68 | 20, 30 | 1 | 0.036 | 2900(2600) | 2800(2300) | H |
| BWVH002520121R0□00 | 1.0 | 20, 30 | 1 | 0.037 | 2700(2450) | 2600(2200) | A |
| BWVH002520121R5□00 | 1.5 | 20, 30 | 1 | 0.075 | 2200(1900) | 1900(1600) | I |
| BWVH002520122R2□00 | 2.2 | 20, 30 | 1 | 0.080 | 1900(1800) | 1800(1500) | B |
| BWVH002520124R7□00 | 4.7 | 20, 30 | 1 | 0.195 | 1200(1000) | 1100(930) | C |
| BWVH00252012100□00 | 10 | 20, 30 | 1 | 0.400 | 900(800) | 800(680) | F |
| BWVH00252012330□00 | 33 | 20, 30 | 1 | 1.550 | 430(380) | 380(340) | L |
| BWVH00252012470□00 | 47 | 20, 30 | 1 | 1.700 | 390(350) | 340(300) | K |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
Isat & I rms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



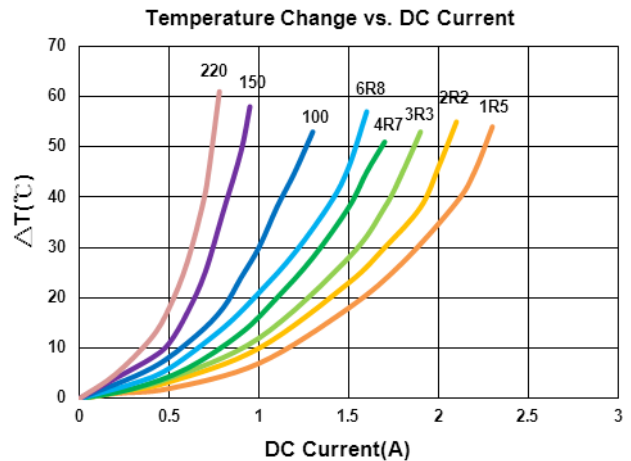
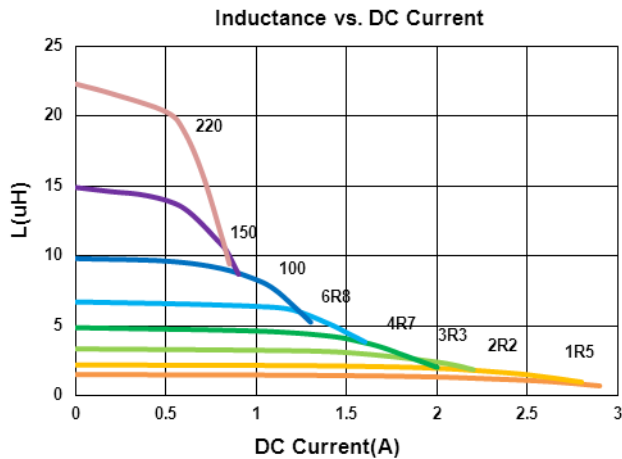
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|--------------------|-----------------|----------------|----------------------|--------------|----------------------|----------------------|------------|
| BWVH005956101R5□00 | 1.5 | 20, 30 | 100 | 0.086 | 2400(2100) | 2100(1900) | <u>1R5</u> |
| BWVH005956102R2□00 | 2.2 | 20, 30 | 100 | 0.110 | 2200(1900) | 1900(1700) | <u>2R2</u> |
| BWVH005956103R3□00 | 3.3 | 20, 30 | 100 | 0.135 | 1800(1600) | 1700(1500) | <u>3R3</u> |
| BWVH005956104R7□00 | 4.7 | 20, 30 | 100 | 0.165 | 1500(1300) | 1500(1300) | <u>4R7</u> |
| BWVH005956106R8□00 | 6.8 | 20, 30 | 100 | 0.210 | 1400(1200) | 1400(1200) | <u>6R8</u> |
| BWVH00595610100□00 | 10 | 20, 30 | 100 | 0.270 | 1100(1000) | 1100(1000) | <u>100</u> |
| BWVH00595610150□00 | 15 | 20, 30 | 100 | 0.375 | 800(720) | 800(720) | <u>150</u> |
| BWVH00595610220□00 | 22 | 20, 30 | 100 | 0.580 | 690(620) | 690(620) | <u>220</u> |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

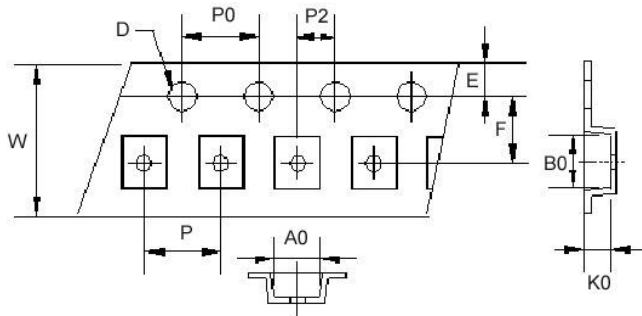
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent HP 4285A+Agilent HP 42841A, 100kHz 1V
 RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat & I rms : Agilent HP 4285A+Agilent HP 42841A

Test Instruments : HP4285A Material/Impedance Analyzer

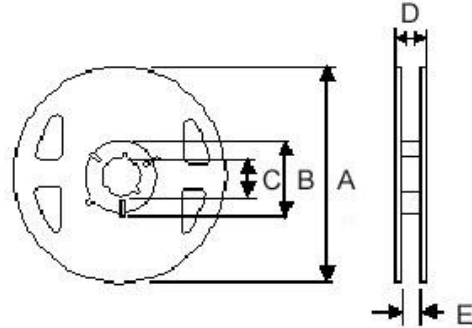


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

| TYPE | Tape Dimensions | | | | | | | | | | Reel Dimensions | | | | | Quantity |
|--------------|-----------------|-----|------|------|------|-----|----|----|----|----|-----------------|-----|----|------|-----|------------|
| | A0 | B0 | K0 | D | E | F | W | P | P0 | P2 | A | B | C | D | E | PCS / Reel |
| BWVH00201610 | 1.9 | 2.2 | 1.15 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| BWVH00252010 | 2.4 | 2.7 | 1.15 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| BWVH00252012 | 2.4 | 2.7 | 1.35 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| BWVH00595610 | 5.9 | 6.2 | 1.20 | 1.55 | 1.75 | 7.5 | 16 | 12 | 4 | 2 | 330 | 100 | 13 | - | 16 | 2000 |

For More Information:

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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