

Type 3630 Series

Key Features

High current capability
ferrite core

Available in E12 values

Up to 8.2A

Down to 2.7mm height

Available in 6 different styles

High reliability

Taped and Reeled



The 3630 series is a shielded power inductor offered in six convenient sizes. Careful selection of materials ensure that these Tyco Sigma inductors offer high reliability, long life and repeatability but are very cost competitive. The low profile makes this product very effective in space – conscious applications and designs. With its low resistance and high energy storage capabilities the products are highly suitable for use in DC-DC converter applications, step up or step down converters and flash memory programmers.

Characteristics Electrical 3630A series

| Inductance Code | Inductance (µH) | Tolerance | Q Ref | Test Freq (Hz) | | S.R.F (MHz)Nom | RDC (Ω)Max | IDC (A)Max |
|-----------------|-----------------|-----------|-------|----------------|--------|----------------|------------|------------|
| | | | | L | Q | | | |
| 5R0 | 5.0 | ±20% | 20 | 1K | 7.960M | 45.0 | 0.080 | 1.70 |
| 7R5 | 7.5 | ±20% | 20 | 1K | 7.960M | 40.0 | 0.100 | 1.40 |
| 100 | 10.0 | ±20% | 38 | 1K | 2.520M | 32.0 | 0.120 | 1.20 |
| 120 | 12.0 | ±20% | 38 | 1K | 2.520M | 28.0 | 0.150 | 1.10 |
| 150 | 15.0 | ±20% | 38 | 1K | 2.520M | 25.0 | 0.170 | 1.00 |
| 180 | 18.0 | ±15% | 35 | 1K | 2.520M | 23.0 | 0.190 | 0.90 |
| 220 | 22.0 | ±15% | 30 | 1K | 2.520M | 22.0 | 0.250 | 0.80 |
| 270 | 27.0 | ±15% | 28 | 1K | 2.520M | 18.0 | 0.270 | 0.70 |
| 330 | 33.0 | ±15% | 26 | 1K | 2.520M | 17.0 | 0.300 | 0.65 |
| 390 | 39.0 | ±15% | 26 | 1K | 2.520M | 16.0 | 0.380 | 0.60 |
| 470 | 47.0 | ±10% | 24 | 1K | 2.520M | 14.0 | 0.460 | 0.55 |
| 560 | 56.0 | ±10% | 24 | 1K | 2.520M | 12.0 | 0.600 | 0.50 |
| 680 | 68.0 | ±10% | 22 | 1K | 2.520M | 11.0 | 0.700 | 0.45 |
| 820 | 82.0 | ±10% | 20 | 1K | 2.520M | 10.0 | 0.800 | 0.40 |
| 101 | 100.0 | ±10% | 50 | 1K | 0.796M | 9.0 | 0.950 | 0.37 |
| 121 | 120.0 | ±10% | 50 | 1K | 0.796M | 8.5 | 1.000 | 0.35 |
| 151 | 150.0 | ±10% | 53 | 1K | 0.796M | 7.0 | 1.300 | 0.30 |
| 181 | 180.0 | ±10% | 53 | 1K | 0.796M | 6.0 | 1.450 | 0.28 |
| 221 | 220.0 | ±10% | 55 | 1K | 0.796M | 5.5 | 1.900 | 0.24 |
| 271 | 270.0 | ±10% | 50 | 1K | 0.796M | 5.5 | 2.150 | 0.22 |
| 331 | 330.0 | ±10% | 60 | 1K | 0.796M | 5.0 | 2.800 | 0.19 |
| 391 | 390.0 | ±10% | 55 | 1K | 0.796M | 4.5 | 3.300 | 0.17 |
| 471 | 470.0 | ±10% | 50 | 1K | 0.796M | 4.0 | 3.600 | 0.16 |

Characteristics Electrical 3630B series

| Inductance Code | Inductance (μH) | Tolerance | Q Ref | Test Freq (Hz) | | S.R.F (MHz)Nom | RDC (Ω)Max | IDC (A)Max |
|-----------------|-----------------|-----------|-------|----------------|--------|----------------|------------|------------|
| | | | | L | Q | | | |
| 2R2 | 2.2 | ±20% | 18 | 1K | 7.960M | 75.00 | 0.040 | 2.50 |
| 3R9 | 3.9 | ±20% | 20 | 1K | 7.960M | 50.00 | 0.055 | 2.10 |
| 5R6 | 5.6 | ±20% | 20 | 1K | 7.960M | 40.00 | 0.065 | 1.95 |
| 8R2 | 8.2 | ±20% | 19 | 1K | 7.960M | 32.00 | 0.080 | 1.75 |
| 100 | 10.0 | ±20% | 40 | 1K | 2.520M | 28.00 | 0.100 | 1.50 |
| 120 | 12.0 | ±20% | 40 | 1K | 2.520M | 24.00 | 0.120 | 1.40 |
| 150 | 15.0 | ±20% | 40 | 1K | 2.520M | 22.00 | 0.140 | 1.30 |
| 180 | 18.0 | ±15% | 40 | 1K | 2.520M | 19.00 | 0.160 | 1.20 |
| 220 | 22.0 | ±15% | 38 | 1K | 2.520M | 17.00 | 0.180 | 1.10 |
| 270 | 27.0 | ±15% | 35 | 1K | 2.520M | 15.50 | 0.200 | 1.00 |
| 330 | 33.0 | ±15% | 40 | 1K | 2.520M | 13.50 | 0.240 | 0.92 |
| 390 | 39.0 | ±15% | 35 | 1K | 2.520M | 12.00 | 0.260 | 0.84 |
| 470 | 47.0 | ±15% | 32 | 1K | 2.520M | 10.50 | 0.280 | 0.75 |
| 560 | 56.0 | ±10% | 30 | 1K | 2.520M | 9.50 | 0.380 | 0.68 |
| 680 | 68.0 | ±10% | 28 | 1K | 2.520M | 9.00 | 0.440 | 0.60 |
| 820 | 82.0 | ±10% | 28 | 1K | 2.520M | 8.50 | 0.550 | 0.54 |
| 101 | 100.0 | ±10% | 45 | 1K | 0.796M | 7.50 | 0.600 | 0.50 |
| 121 | 120.0 | ±10% | 42 | 1K | 0.796M | 7.00 | 0.750 | 0.45 |
| 151 | 150.0 | ±10% | 39 | 1K | 0.796M | 6.50 | 0.900 | 0.40 |
| 181 | 180.0 | ±10% | 41 | 1K | 0.796M | 4.80 | 1.050 | 0.35 |
| 221 | 220.0 | ±10% | 38 | 1K | 0.796M | 4.50 | 1.180 | 0.30 |
| 271 | 270.0 | ±10% | 37 | 1K | 0.796M | 4.20 | 1.400 | 0.27 |
| 331 | 330.0 | ±10% | 36 | 1K | 0.796M | 3.80 | 1.800 | 0.24 |
| 471 | 470.0 | ±10% | 34 | 1K | 0.796M | 3.50 | 2.250 | 0.20 |
| 561 | 560.0 | ±10% | 32 | 1K | 0.796M | 3.00 | 3.000 | 0.18 |
| 681 | 680.0 | ±10% | 32 | 1K | 0.796M | 2.80 | 3.400 | 0.17 |
| 821 | 820.0 | ±10% | 35 | 1K | 0.796M | 2.50 | 4.000 | 0.16 |
| 102 | 1000.0 | ±10% | 35 | 1K | 0.252M | 2.20 | 5.000 | 0.15 |

Characteristics Electrical 3630C series

| Inductance Code | Inductance (μH) | Tolerance | Q Ref | Test Freq (Hz) | | S.R.F (MHz)Nom | RDC (Ω)Max | IDC (A)Max |
|-----------------|-----------------|-----------|-------|----------------|--------|----------------|------------|------------|
| | | | | L | Q | | | |
| 1R0 | 1.0 | ±20% | 25 | 1K | 7.960M | 120.00 | 0.017 | 4.50 |
| 1R5 | 1.5 | ±20% | 25 | 1K | 7.960M | 100.00 | 0.020 | 3.60 |
| 2R2 | 2.2 | ±20% | 25 | 1K | 7.960M | 90.00 | 0.027 | 3.10 |
| 3R0 | 3.0 | ±20% | 25 | 1K | 7.960M | 80.00 | 0.030 | 2.90 |
| 4R7 | 4.7 | ±20% | 25 | 1K | 7.960M | 50.00 | 0.040 | 2.50 |
| 7R0 | 7.0 | ±20% | 22 | 1K | 7.960M | 32.00 | 0.055 | 2.20 |
| 100 | 10.0 | ±20% | 48 | 1K | 2.520M | 30.00 | 0.065 | 2.00 |
| 120 | 12.0 | ±20% | 45 | 1K | 2.520M | 25.00 | 0.080 | 1.80 |
| 150 | 15.0 | ±20% | 40 | 1K | 2.520M | 20.00 | 0.085 | 1.70 |
| 180 | 18.0 | ±15% | 35 | 1K | 2.520M | 19.00 | 0.090 | 1.60 |
| 220 | 22.0 | ±15% | 42 | 1K | 2.520M | 18.00 | 0.100 | 1.40 |
| 270 | 27.0 | ±15% | 40 | 1K | 2.520M | 17.00 | 0.120 | 1.30 |
| 330 | 33.0 | ±15% | 40 | 1K | 2.520M | 15.00 | 0.160 | 1.20 |
| 390 | 39.0 | ±15% | 40 | 1K | 2.520M | 13.00 | 0.180 | 1.05 |
| 470 | 47.0 | ±15% | 35 | 1K | 2.520M | 12.00 | 0.190 | 1.00 |
| 560 | 56.0 | ±15% | 35 | 1K | 2.520M | 11.00 | 0.210 | 0.90 |
| 680 | 68.0 | ±15% | 35 | 1K | 2.520M | 9.00 | 0.340 | 0.82 |
| 820 | 82.0 | ±15% | 35 | 1K | 2.520M | 8.00 | 0.380 | 0.75 |
| 101 | 100.0 | ±10% | 35 | 1K | 0.796M | 7.50 | 0.420 | 0.68 |
| 121 | 120.0 | ±10% | 30 | 1K | 0.796M | 7.20 | 0.460 | 0.60 |

Characteristics Electrical 3630C (continued)

| Inductance Code | Inductance (μH) | Tolerance | Q Ref | Test Freq (Hz) | | S.R.F (MHz)Nom | RDC (Ω)Max | IDC (A)Max |
|-----------------|-----------------|-----------|-------|----------------|--------|----------------|------------|------------|
| | | | | | | | | |
| 151 | 150.0 | ±10% | 28 | 1K | 0.796M | 6.20 | 0.520 | 0.55 |
| 181 | 180.0 | ±10% | 28 | 1K | 0.796M | 5.80 | 0.700 | 0.50 |
| 221 | 220.0 | ±10% | 30 | 1K | 0.796M | 5.20 | 0.800 | 0.45 |
| 271 | 270.0 | ±10% | 30 | 1K | 0.796M | 4.80 | 1.100 | 0.40 |
| 331 | 330.0 | ±10% | 30 | 1K | 0.796M | 4.50 | 1.200 | 0.35 |
| 391 | 390.0 | ±10% | 25 | 1K | 0.796M | 4.20 | 1.400 | 0.33 |
| 471 | 470.0 | ±10% | 40 | 1K | 0.796M | 3.00 | 1.600 | 0.30 |
| 561 | 560.0 | ±10% | 40 | 1K | 0.796M | 2.70 | 1.800 | 0.28 |
| 681 | 680.0 | ±10% | 37 | 1K | 0.796M | 2.60 | 2.300 | 0.26 |
| 821 | 820.0 | ±10% | 37 | 1K | 0.796M | 2.50 | 2.600 | 0.24 |
| 102 | 1000.0 | ±10% | 65 | 1K | 0.252M | 2.00 | 3.200 | 0.22 |
| 122 | 1200.0 | ±10% | 58 | 1K | 0.252M | 2.00 | 3.600 | 0.20 |
| 152 | 1500.0 | ±10% | 53 | 1K | 0.252M | 1.60 | 5.200 | 0.17 |
| 182 | 1800.0 | ±10% | 65 | 1K | 0.252M | 1.40 | 5.700 | 0.16 |
| 222 | 2200.0 | ±10% | 55 | 1K | 0.252M | 1.40 | 6.500 | 0.14 |
| 272 | 2700.0 | ±10% | 55 | 1K | 0.252M | 1.20 | 8.600 | 0.12 |
| 332 | 3300.0 | ±10% | 50 | 1K | 0.252M | 1.20 | 10.000 | 0.10 |

Electrical specifications @ 25°C

IDC based on Temp. rise 40°C max. and ΔL/LOA=10% max.

Characteristics Electrical 3630D

| Inductance Code | Inductance (μH) | Tolerance | Q Ref | Test Freq (Hz) | | RDC (Ω)Max | Irms (A) Max. | Isat (A) Max. |
|-----------------|-----------------|-----------|-------|----------------|--------|------------|---------------|---------------|
| | | | | L | Q | | | |
| 1R8 | 1.8 | ±20% | 10 | 1K | 7.960M | 0.038 | 3.00 | 3.60 |
| 2R2 | 2.2 | ±20% | 11 | 1K | 7.960M | 0.045 | 2.76 | 3.40 |
| 3R0 | 3.0 | ±20% | 11 | 1K | 7.960M | 0.062 | 2.20 | 2.60 |
| 3R9 | 3.9 | ±20% | 10 | 1K | 7.960M | 0.070 | 2.10 | 2.40 |
| 4R7 | 4.7 | ±20% | 10 | 1K | 7.960M | 0.078 | 1.90 | 2.30 |
| 7R5 | 7.5 | ±20% | 10 | 1K | 7.960M | 0.100 | 1.44 | 1.70 |
| 100 | 10.0 | ±20% | 18 | 1K | 2.520M | 0.145 | 1.24 | 1.50 |
| 120 | 12.0 | ±20% | 20 | 1K | 2.520M | 0.185 | 1.10 | 1.30 |
| 150 | 15.0 | ±20% | 20 | 1K | 2.520M | 0.200 | 1.02 | 1.20 |
| 180 | 18.0 | ±20% | 20 | 1K | 2.520M | 0.270 | 0.90 | 1.10 |
| 220 | 22.0 | ±20% | 17 | 1K | 2.520M | 0.300 | 0.80 | 1.00 |
| 270 | 27.0 | ±20% | 17 | 1K | 2.520M | 0.400 | 0.75 | 0.90 |
| 330 | 33.0 | ±20% | 17 | 1K | 2.520M | 0.450 | 0.70 | 0.85 |
| 390 | 39.0 | ±20% | 18 | 1K | 2.520M | 0.560 | 0.65 | 0.80 |
| 470 | 47.0 | ±20% | 18 | 1K | 2.520M | 0.650 | 0.60 | 0.72 |
| 560 | 56.0 | ±20% | 15 | 1K | 2.520M | 0.680 | 0.52 | 0.65 |
| 680 | 68.0 | ±20% | 15 | 1K | 2.520M | 0.800 | 0.48 | 0.58 |
| 820 | 82.0 | ±20% | 20 | 1K | 2.520M | 1.200 | 0.42 | 0.52 |
| 101 | 100.0 | ±20% | 23 | 1K | 0.796M | 1.400 | 0.40 | 0.48 |
| 121 | 120.0 | ±20% | 22 | 1K | 0.796M | 1.520 | 0.35 | 0.44 |
| 151 | 150.0 | ±20% | 23 | 1K | 0.796M | 1.800 | 0.32 | 0.40 |
| 181 | 180.0 | ±20% | 20 | 1K | 0.796M | 2.200 | 0.28 | 0.35 |
| 221 | 220.0 | ±20% | 20 | 1K | 0.796M | 2.200 | 0.26 | 0.32 |
| 271 | 270.0 | ±15% | 26 | 1K | 0.796M | 3.100 | 0.22 | 0.28 |
| 331 | 330.0 | ±15% | 26 | 1K | 0.796M | 3.600 | 0.20 | 0.26 |
| 391 | 390.0 | ±15% | 28 | 1K | 0.796M | 4.600 | 0.18 | 0.22 |
| 471 | 470.0 | ±15% | 28 | 1K | 0.796M | 5.100 | 0.16 | 0.20 |

Electrical specifications @ 25°C

Irms based on Temp. rise 40°C max.

Isat based on ΔL/LOA=10% max

Characteristics Electrical 3630F

| Inductance Code | Inductance (μH) | Tolerance | Q Ref | Test Freq (MHz) Q | S.R.F. (MHz) Typ. | R.D.C. (Ω) Max. | I _{rms} (A) Typ. | I _{sat} (A) Typ. |
|-----------------|-----------------|-----------|-------|-------------------|-------------------|-----------------|---------------------------|---------------------------|
| 100 | 10.0 | ±20% | 56 | 2.52M | 19.00 | 0.040 | 4.00 | 8.20 |
| 150 | 15.0 | ±20% | 53 | 2.52M | 17.50 | 0.052 | 3.60 | 7.20 |
| 220 | 22.0 | ±20% | 51 | 2.52M | 16.00 | 0.070 | 3.00 | 6.20 |
| 330 | 33.0 | ±20% | 44 | 2.52M | 10.00 | 0.100 | 2.50 | 5.00 |
| 470 | 47.0 | ±20% | 40 | 2.52M | 8.00 | 0.130 | 2.00 | 4.20 |
| 680 | 68.0 | ±20% | 37 | 2.52M | 6.00 | 0.200 | 1.60 | 3.40 |
| 101 | 100.0 | ±20% | 40 | 0.796M | 4.60 | 0.320 | 1.30 | 2.60 |
| 151 | 150.0 | ±20% | 39 | 0.796M | 4.30 | 0.500 | 1.05 | 2.30 |
| 221 | 220.0 | ±20% | 29 | 0.796M | 3.50 | 0.600 | 1.00 | 1.90 |
| 331 | 330.0 | ±20% | 30 | 0.796M | 3.00 | 0.920 | 0.80 | 1.40 |
| 471 | 470.0 | ±20% | 27 | 0.796M | 2.40 | 1.150 | 0.64 | 1.30 |
| 681 | 680.0 | ±20% | 19 | 0.796M | 2.10 | 1.700 | 0.54 | 1.10 |
| 102 | 1000.0 | ±10% | 46 | 0.252M | 1.50 | 2.450 | 0.45 | 0.90 |

Electrical specifications @ 25°C

Inductance test condition 100kHz

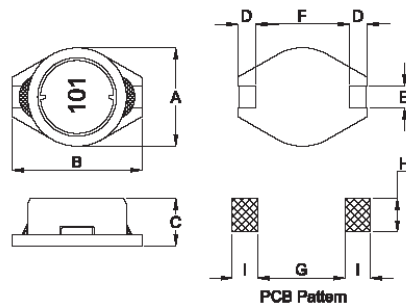
I_{rms} based on Temp. rise 40°C typ.

I_{sat} based on ΔL/LOA=10% typ.

Environmental Characteristics – A,B,C,D,F series

| | |
|---------------------------|--|
| Storage Temp: | -40°C to +125°C |
| Operating Temp: | -40°C to +125°C |
| Rated current | Based on Temp. rise and ΔL/LOA=10% max. (F = 10% typ.) |
| Temp Rise: | 40°C max. (F = 40°C typ.) |
| Resistance to Solder heat | A & D = 250°C 10s |
| | B,C & F = 245°C 10s |

Dimensions A, B, C, D, F series



| Series | A | B | C | D | E | F | G(ref) | H(Ref) | I(Ref) |
|--------|-----------|----------|---------|---------|---------|----------|--------|--------|--------|
| 3630A | 8.0±0.3 | 10.5±0.3 | 3.7±0.3 | 2.1±0.2 | 2.0±0.2 | 6.0±0.3 | 5.7 | 2.2 | 2.4 |
| 3630B | 8.0±0.3 | 10.5±0.3 | 4.5±0.3 | 2.1±0.2 | 2.0±0.2 | 6.0±0.3 | 5.7 | 2.2 | 2.4 |
| 3630C | 10.0±0.3 | 12.7±0.3 | 4.9±0.3 | 2.4±0.2 | 2.2±0.2 | 7.6±0.3 | 7.3 | 2.8 | 3.0 |
| 3630D | 10.10±0.3 | 12.7±0.3 | 2.7±0.3 | 2.4±0.2 | 2.2 ref | 7.6±0.3 | 7.3 | 2.8 | 3.0 |
| 3630F | 14.0±0.5 | 18.2±0.5 | 6.8±0.3 | 2.5±0.2 | 2.6±0.2 | 13.0±0.3 | 12.7 | 2.9 | 3.2 |

Characteristics Electrical 3630E

| Inductance Code | Inductance (μH) ±20% | Q Min | Test Freq (Hz) | | S.R.F. (MHz)Nom | RDC (Ω)Max | I _{rms} (A) Max. | I _{sat} (A) Typ. |
|-----------------|----------------------|-------|----------------|------|-----------------|------------|---------------------------|---------------------------|
| | | | L/0.1V | Q | | | | |
| 1R0 | 1.0 | 10 | 100k | 200k | 250.00 | 0.040 | 3.000 | 1.200 |
| 1R5 | 1.5 | 20 | 100k | 500k | 125.00 | 0.045 | 2.800 | 0.920 |
| 2R2 | 2.2 | 25 | 100k | 500k | 120.00 | 0.050 | 1.800 | 0.800 |
| 3R3 | 3.3 | 40 | 100k | 200k | 120.00 | 0.055 | 1.600 | 0.620 |
| 4R7 | 4.7 | 40 | 100k | 200k | 105.00 | 0.060 | 1.400 | 0.500 |
| 6R8 | 6.8 | 40 | 100k | 200k | 50.00 | 0.065 | 1.200 | 0.400 |
| 100 | 10.0 | 40 | 100k | 200k | 38.00 | 0.075 | 1.000 | 0.320 |
| 150 | 15.0 | 40 | 100k | 100k | 33.00 | 0.090 | 0.800 | 0.260 |
| 220 | 22.0 | 40 | 100k | 100k | 25.00 | 0.110 | 0.700 | 0.240 |
| 330 | 33.0 | 40 | 100k | 100k | 20.00 | 0.190 | 0.600 | 0.160 |
| 470 | 47.0 | 40 | 100k | 100k | 20.00 | 0.230 | 0.500 | 0.140 |
| 680 | 68.0 | 40 | 100k | 100k | 15.00 | 0.290 | 0.400 | 0.120 |
| 101 | 100.0 | 40 | 100k | 100k | 10.00 | 0.480 | 0.300 | 0.100 |
| 151 | 150.0 | 40 | 100k | 100k | 9.00 | 0.590 | 0.260 | 0.080 |
| 221 | 220.0 | 40 | 100k | 100k | 6.00 | 0.770 | 0.220 | 0.070 |
| 331 | 330.0 | 40 | 100k | 100k | 5.00 | 1.400 | 0.200 | 0.050 |
| 471 | 470.0 | 40 | 100k | 100k | 4.00 | 1.800 | 0.190 | 0.045 |
| 681 | 680.0 | 40 | 100k | 100k | 3.00 | 2.200 | 0.180 | 0.040 |
| 102 | 1000.0 | 40 | 100k | 100k | 2.00 | 3.400 | 0.150 | 0.028 |
| 152 | 1500.0 | 50 | 100k | 100k | 2.00 | 4.200 | 0.120 | 0.024 |
| 222 | 2200.0 | 50 | 100k | 100k | 2.00 | 8.500 | 0.100 | 0.020 |
| 332 | 3300.0 | 50 | 100k | 100k | 1.00 | 11.000 | 0.080 | 0.018 |
| 472 | 4700.0 | 50 | 100k | 100k | 1.00 | 13.900 | 0.060 | 0.014 |
| 682 | 6800.0 | 50 | 100k | 100k | 1.00 | 25.000 | 0.040 | 0.012 |
| 103 | 10000.0 | 50 | 100k | 100k | 0.80 | 32.800 | 0.020 | 0.010 |

Electrical specification at 25°C

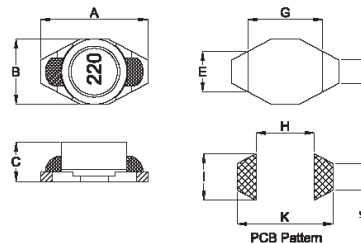
I_{rms} based on Temp. rise 30°C max.

I_{sat} based on ΔL/LOA=10% typ.

Environmental Characteristics – E series

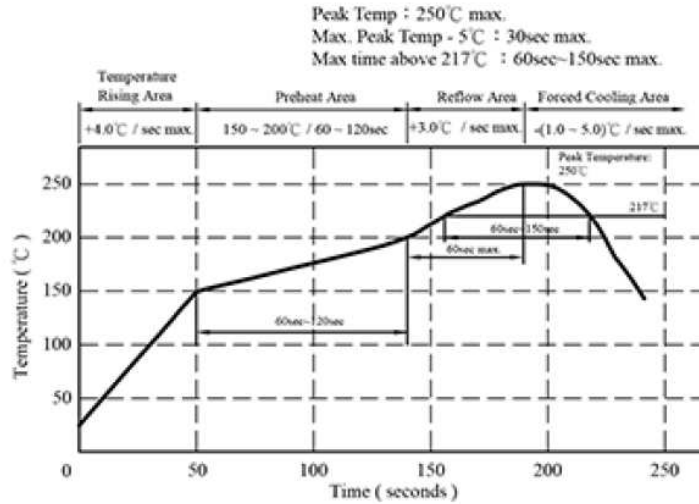
| | |
|----------------------------|---|
| Storage Temp: | -55°C to +125°C |
| Operating Temp: | -55°C to +125°C |
| Rated Current: | Based on Temp. rise and ΔL/LOA=10% typ. |
| Temp Rise: | 30°C max. |
| Resistance to Solder heat: | 250°C 10s |

Dimensions E series

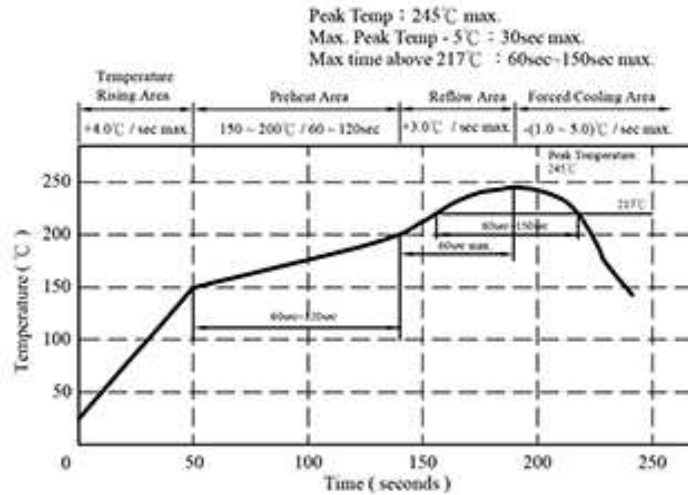


| Series | A ±0.20 | B max | C ±0.15 | E ref | F ref | G ref | H ref | I ref | J ref | K ref |
|--------|---------|-------|---------|-------|-------|-------|-------|-------|-------|-------|
| 3630E | 6.50 | 4.40 | 2.90 | 2.50 | 1.24 | 4.45 | 4.10 | 1.60 | 3.00 | 7.00 |

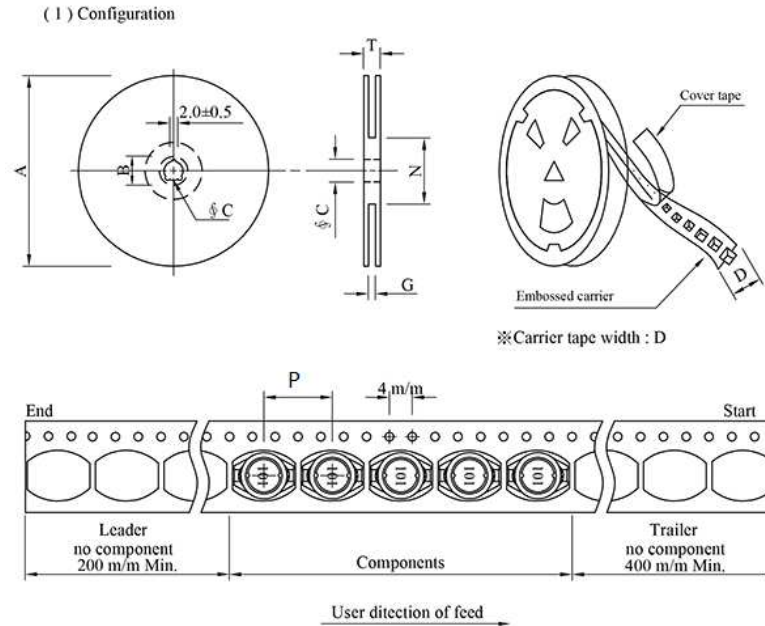
Recommended Reflow Solder Profile A, D, E series



Recommended Reflow Solder Profile B, C, F Series



Packaging:



| Series | A | B | C | D | G | N | T | P | Reel Quantity |
|--------|-----|--------|--------|----|----|-----|------|----|---------------|
| 3630A | 330 | 21±0.8 | 13±0.5 | 16 | 18 | 50 | 22.4 | 12 | 1000 |
| 3630B | 330 | 21±0.8 | 13±0.5 | 16 | 18 | 50 | 22.4 | 12 | 1000 |
| 3630C | 330 | 21±0.8 | 13±0.5 | 24 | 26 | 60 | 30.4 | 16 | 600 |
| 3630D | 330 | 21±0.8 | 13±0.5 | 24 | 26 | 60 | 30.4 | 16 | 1000 |
| 3630E | 178 | 21±0.8 | 13 | 12 | 14 | 50 | 16.5 | 8 | 600 |
| 3630F | 330 | 21±0.8 | 13±0.5 | 32 | 34 | 100 | 38.4 | 20 | 250 |

Reliability Tests

| Item | Reference Documents | Test Condition | Test Specification |
|---------------------------|--|---|---|
| High Temperature Exposure | MIL-STD-202 Method 108 | Temperature: 125±2°C Time: 96±2 hours | No mechanical or electrical damage Inductance shall not change by more than ±20% |
| Temperature Cycling | JESD22-A 104 | Temperature: -40°C ~ +125°C Number of Cycles: 100 Dwell Time: 30 minutes | No mechanical or electrical damage Inductance shall not change by more than ±20% |
| Biased Humidity Test | MIL-STD-202 Method 103 | Temperature: 85±2°C Humidity: 85% RH Time: 96±2 hours | No mechanical or electrical damage Inductance shall not change by more than ±20% |
| Operational Life | JESD22-A 108 | Temperature: 125°C (temperature rise included) Time: 96±2 hours Rated Current | No mechanical or electrical damage Inductance shall not change by more than ±20% |
| External Visual | JESD22-B 101 and MIL-STD-883 Method 2009 | Inspect product construction, marking and workmanship. | No pollution on surface of product Clear Marking No Cracks |

Reliability Tests (continued)

| Item | Reference Documents | Test Condition | Test Specification |
|------------------------------|--------------------------------------|---|---|
| Physical Dimensions | JESD22-B 100 | Verify physical dimensions to applicable product specification | Per product specification standard |
| Resistance to Solvents | MIL-STD-202 Method 215 | Immerse into solvent for 3±0.5 minutes and brush 10 times for 3 cycles | No change in body appearance No blurring of marking Inductance shall not change by more than ±20% |
| Vibration Test | MIL-STD-202 Method 204 | Frequency and amplitude: 10 – 20000 – 10 Hz, 1.5mm Direction: X, Y, Z Test duration: 2 hours for each direction. 6 hours in total | No mechanical or electrical damage Inductance shall not change by more than ±20% |
| Resistance to soldering Heat | MIL-STD-202 Method 210 & J-STD020D.1 | Highest Temperature: 250±5°C (A,D,E) 245±5°C (B,C,F) Time (temp ≥217°C): 60 – 150 seconds IR reflow times: 3 | No mechanical or electrical damage Inductance shall not change by more than ±20% |
| Saturation Current | JIS C 6436 & user Spec. | Apply rated current for 5 seconds Saturation current | Inductance shall not drop by more than 10% |
| Overload | JIS C 6436 & user Spec. | Apply 1.5 x rated current for 5 minutes Rated current | No electrical or mechanical damage |
| Temperature Rise Current | JIS C 6436 & user Spec. | Apply rated current for 10 minutes Measure temperature using digital surface thermometer I _{rms} current | Surface temperature rise less than 40°C (E series 30°C) |
| Solderability Test | J-STD002 & JESD22-B 102 | Bake: 150±5°C / 16±0.5 hours Peak Temp: 240±5°C Time (temp ≥217°C): 60 – 150 seconds IR reflow times: 1 | More than 95% coverage on all terminations |
| Electrical Characterisation | MIL-STD-202 Method 304 & User Spec. | Operating temp: As spec. Room temp: 25°C | No mechanical or electrical damage Inductance shall not change by more than ±20% |
| Terminal Strength | IEC 60068-2-21 | Apply push force of 1.8kg / 60±1s | No mechanical or electrical damage |

How To Order

| Common Part | Style | Inductance Code | Tolerance |
|-------------|------------------|------------------|----------------------------------|
| 3630 | A, B, C, D, E, F | See above tables | K = ±10% L = ±15% M = ±20% |

单击下面可查看定价，库存，交付和生命周期等信息

[>>TE Connectivity\(泰科\)](#)