

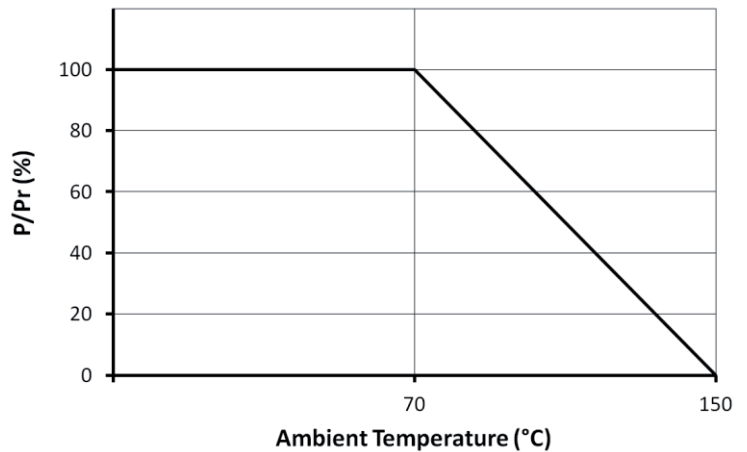
Manufacturing Capabilities Data

| TCR ppm/°C | Tolerance % | | | | | | | | | | | |
|---------------|-------------|----------|------------------------|-----------|----------|------------------------|------------|-----------|-------------------------|------------|-----------|-------------------------|
| | W0402 | | | W0603 | | | W0805 | | | W1206 | | |
| | 0.02 | 0.05 | 0.1-5 | 0.02 | 0.05 | 0.1-5 | 0.02 | 0.05 | 0.1-5 | 0.02 | 0.05 | 0.1-5 |
| 10 | 100Ω-16kΩ | | 100Ω-16kΩ ¹ | 100Ω-50kΩ | | 100Ω-50kΩ ¹ | 100Ω-100kΩ | | 100Ω-125kΩ ³ | 100Ω-400kΩ | | 100Ω-400kΩ ¹ |
| 15 | 50Ω-16kΩ | | 50Ω-16kΩ ¹ | 50Ω-50kΩ | | 50Ω-50kΩ ¹ | 50Ω-100kΩ | | 50Ω-125kΩ ³ | 50Ω-400kΩ | | 50Ω-400kΩ ¹ |
| 25 | 50Ω-16kΩ | 10Ω-24kΩ | 10Ω-30kΩ ² | 50Ω-50kΩ | 10Ω-75kΩ | 10Ω-100kΩ ¹ | 50Ω-100kΩ | 10Ω-180kΩ | 10Ω-267kΩ ¹ | 50Ω-400kΩ | 10Ω-650kΩ | 10Ω-1MΩ ¹ |
| 50, 100 | | | 7.5Ω-30kΩ ² | | | 5Ω-100kΩ ¹ | | | 5Ω-267kΩ ¹ | | | 5Ω-1MΩ ¹ |

Notes

1. For Pb-free, unscreened PFC chips see separate PFC Commercial Series datasheet
2. For Pb-free, unscreened PFC chips at values ≥15R see separate PFC Commercial Series datasheet
3. For Pb-free, unscreened PFC chips at values ≤100K see separate PFC Commercial Series datasheet

Power Derating Curve



Physical Data

| Model | L | W | H | a | b | c (min.) |
|--------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------|
| W0402 | 0.04 ±0.002 (1.02 ±0.05) | 0.021 ±0.002 (0.53 ±0.05) | 0.012 ±0.003 (0.3 ±0.08) | 0.008 ±0.002 (0.2 ±0.05) | 0.01 ±0.002 (0.25 ±0.05) | 0.017 (0.43) |
| W0603 | 0.063 ±0.004 (1.6 ±0.1) | 0.031 ±0.004 (0.79 ±0.1) | 0.02 ±0.006 (0.51 ±0.15) | 0.012 ±0.005 (0.3 ±0.13) | 0.015 ±0.005 (0.38 ±0.13) | 0.03 (0.76) |
| W0805 | 0.081 ±0.005 (2.06 ±0.13) | 0.05 ±0.005 (1.27 ±0.13) | 0.02 ±0.006 (0.51 ±0.15) | 0.015 ±0.008 (0.38 ±0.2) | 0.016 ±0.008 (0.41 ±0.2) | 0.046 (1.17) |
| W1206 | 0.126 ±0.006 (3.2 ±0.15) | 0.063 ±0.005 (1.6 ±0.13) | 0.024 ±0.004 (0.61 ±0.1) | 0.025 ±0.01 (0.64 ±0.25) | 0.025 ±0.01 (0.64 ±0.25) | 0.085 (2.16) |

MIL Screened Precision Chip Resistors

IRC's PFC chip resistors are available with MIL screening. These chips are manufactured on the same production line as our Mil-qualified chip resistors and screened in accordance with MIL-PRF-55342. These chips are identified with IRC's ordering information and not with MIL marking.

See separate MIL-CHIP datasheet.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: W1206R-01-1K0AI (1206, 100ppm/°C, 1 kilohm ±0.05%, Pb-free)



| 1 Type | 2 Size | 3 Option | 4 TCR | 5 Value | 6 Tolerance | 7 Termination & Packing | |
|-----------|-----------|----------------|-------------------------------------|--|--|---------------------------------|-----------|
| W=PFC | 0402 | R=Standard | -12 = ±10ppm/°C | E24 = 3/4 characters E96 = 3/4 characters R = ohms K = kilohms M = megohms | Q = ±0.02% | I = Pb-free, Standard pack | |
| | 0603 | AS=Anti-sulfur | -11 = ±15ppm/°C | | A = ±0.05% | PB = SnPb finish, Standard pack | |
| | 0805 | | Blank = ±25ppm/°C | | B = ±0.1% | All sizes | 1000/reel |
| | 1206 | | -02 = ±50ppm/°C -01 = ±100ppm/°C | | D = ±0.5% F = ±1% G = ±2% J = ±5% | | |

USA (IRC) Commercial Part Number: PFC-W1206LF-01-1001-A (1206, 100ppm/°C, 1 kilohm ±0.05%, Pb-free)



| 1 Family | 2 Model | 3 Termination | 4 TCR | 5 Value | 6 Tolerance | Packing | |
|-------------|------------|--|-----------------------------------|---|--|-----------|-----------|
| PFC | W0402 | R = SnPb (60/40) | 12 = ±10ppm/°C | 3 digits + multiplier R = ohms for values <100 ohms | Q = ±0.02% | All sizes | 1000/reel |
| | W0603 | LF = Pb-free (100%Sn) | 11 = ±15ppm/°C | | A = ±0.05% | | |
| | W0805 | ASLF = Anti-sulfur & Pb-free (100%Sn) | 03 = ±25ppm/°C | | B = ±0.1% | | |
| | W1206 | | 02 = ±50ppm/°C 01 = ±100ppm/°C | | D = ±0.5% F = ±1% G = ±2% J = ±5% | | |

USA (IRC) Mil Screened Part Number*: PFC-W1206R-05-1001-B (1206, 100ppm/°C, 1 kilohm ±0.1%,)



| 1 Family | 2 Model | 3 Termination | 4 TCR | 5 Value | 6 Tolerance | Packing | |
|-------------|------------|------------------|------------------------------------|---|----------------|-----------|-----------|
| PFC | W0402 | R = SnPb (60/40) | 16 = ±10ppm/°C | 3 digits + multiplier R = ohms for values <100 ohms | B = ±0.1% | All sizes | 1000/reel |
| | W0603 | | 15 = ±15ppm/°C | | D = ±0.5% | | |
| | W0805 | | 14 = ±20ppm/°C | | F = ±1% | | |
| | W1206 | | 07 = ±25ppm/°C | | G = ±2% | | |
| | | | 06 = ±50ppm/°C | | J = ±5% | | |
| | | | 05 = ±100ppm/°C 04 = ±300ppm/°C | | | | |

* Please refer to the MIL-CHIP datasheet to order parts qualified to MIL-PRF-55342.

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