

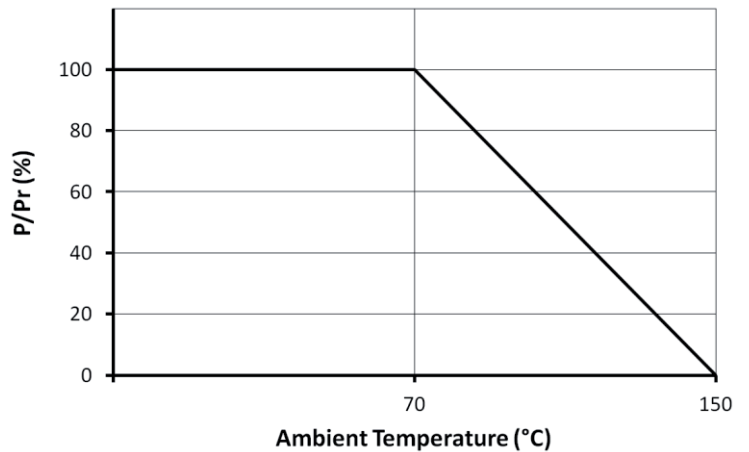
## Manufacturing Capabilities Data

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 <sup>1</sup>	100Ω-50kΩ		100Ω-50kΩ <sup>1</sup>	100Ω-100kΩ		100Ω-125kΩ <sup>3</sup>	100Ω-400kΩ		100Ω-400kΩ <sup>1</sup>
15	50Ω-16kΩ		50Ω-16kΩ <sup>1</sup>	50Ω-50kΩ		50Ω-50kΩ <sup>1</sup>	50Ω-100kΩ		50Ω-125kΩ <sup>3</sup>	50Ω-400kΩ		50Ω-400kΩ <sup>1</sup>
25	50Ω-16kΩ	10Ω-24kΩ	10Ω-30kΩ <sup>2</sup>	50Ω-50kΩ	10Ω-75kΩ	10Ω-100kΩ <sup>1</sup>	50Ω-100kΩ	10Ω-180kΩ	10Ω-267kΩ <sup>1</sup>	50Ω-400kΩ	10Ω-650kΩ	10Ω-1MΩ <sup>1</sup>
50, 100			7.5Ω-30kΩ <sup>2</sup>			5Ω-100kΩ <sup>1</sup>			5Ω-267kΩ <sup>1</sup>			5Ω-1MΩ <sup>1</sup>

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.)
<b>W0402</b>	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)
<b>W0603</b>	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)
<b>W0805</b>	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)
<b>W1206</b>	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%	
	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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