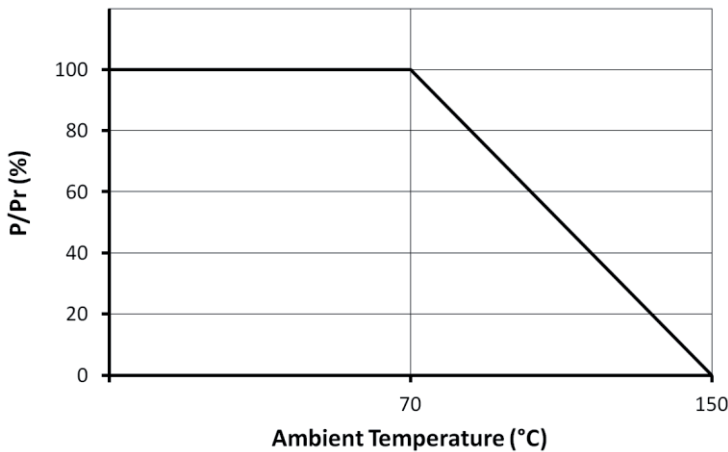


Manufacturing Capabilities Data

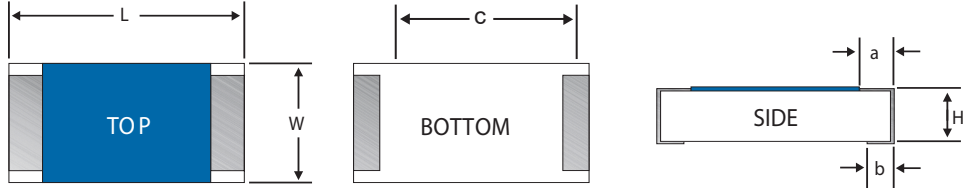
TCR ppm/°C	Tolerance %											
	W0402			W0603			W0805			W1206		
	0.02	0.05	0.1-5	0.02	0.05	0.1-5	0.02	0.05	0.1-5	0.02	0.05	0.1-5
10	100Ω-16kΩ		100Ω-16kΩ ¹	100Ω-50kΩ		100Ω-50kΩ ¹	100Ω-100kΩ		100Ω-125kΩ ³	100Ω-400kΩ		100Ω-400kΩ ¹
15	50Ω-16kΩ		50Ω-16kΩ ¹	50Ω-50kΩ		50Ω-50kΩ ¹	50Ω-100kΩ		50Ω-125kΩ ³	50Ω-400kΩ		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 $\pm 0.05\%$, Pb-free)

W	1	2	0	6	R	-	0	1	-	1	K	0	A	I
1	2	3	4	5	6	7								

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

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

P	F	C	-	W	1	2	0	6	L	F	-	0	1	-	1	0	0	1	-	A
1	2	3	4	5	6															

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

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

P	F	C	-	W	1	2	0	6	R	-	0	5	-	1	0	0	1	-	B
1	2	3	4	5	6														

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

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

General Note

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BI Technologies IRC Welwyn

www.ttelectronics.com/resistors