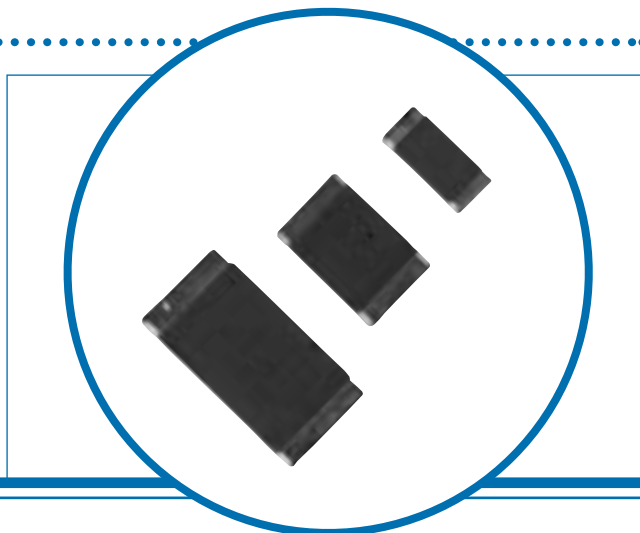


TaNFilm® Precision Chip Resistors

PFC Series

- Military parts available: MIL-PRF - 55342
- Passivated TaNFilm® element
- Wrap-around termination
- TCR to ± 10 ppm/°C
- Tolerance to $\pm 0.02\%$
- Leach resistant nickel barrier termination



Electrical Data

		W0603	W0805	W1206
Power Rating at 70°C	watts	0.1	0.25	0.33
Maximum Voltage Rating	volts	75	100	200
Operating Temperature Range	°C	-55°C to +150°C		
Noise	dB	Less than -25		
Substrate		High purity alumina		

Manufacturing Capabilities

	W0603		W0805		W1206	
TCR (ppm/°C)	Ohmic Range	Available Tolerances	Ohmic Range	Available Tolerances	Ohmic Range	Available Tolerances
± 100	5 - 100K Ω	J, G, F, D	5 - 267K Ω	J, G, F, D	5 - 1M Ω	J, G, F, D
± 50	5 - 100K Ω	J, G, F, D, B	10 - 267K Ω	J, G, F, D, B	10 - 1M Ω	J, G, F, D, B
± 25	10 - 75K Ω	J, G, F, D, B	10 - 267K Ω	J, G, F, D, B	10 - 1M Ω	J, G, F, D, B
	50 - 100K Ω	J, G, F, D, B, A	50 - 267K Ω	J, G, F, D, B, A	50 - 1M Ω	J, G, F, D, B, A
± 15	N/A	N/A	201 - 267K Ω	J, G, F, D, B, A, Q	201 - 1M Ω	J, G, F, D, B, A, Q
			50 - 267K Ω	J, G, F, D, B, A	50 - 1M Ω	J, G, F, D, B, A
± 10	N/A	N/A	201 - 267K Ω	J, G, F, D, B, A, Q	201 - 1M Ω	J, G, F, D, B, A, Q
			100 - 100K Ω	J, G, F, D, B, A	100 - 250K Ω	J, G, F, D, B, A

The TaNFilm® PFC chip resistor series provides the high temperature and ultra stable performance of our Tantalum Nitride Resistive Film System in 1206, 0805 and 0603 sizes. The unique characteristics of the passivated Tantalum Nitride film insure long term life stability and superior moisture performance.

Specially selected materials and processes insure initial precision is maintained in the harshest surface mount soldering environment. Solder coated wrap-around terminations with leach-resistant nickel barriers insure high integrity solder connections. A MIL-PRF-55342 qualified version of this product is also available.

General Note

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

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Environmental Performance

Environmental Test	Performance	
	Typical	Maximum
MIL-PRF-55342		
Thermal Shock	±0.02%	±0.10%
Low Temperature Operation	±0.01%	±0.05%
Short Time Overload	±0.01%	±0.05%
High Temperature Exposure	±0.03%	±0.10%
Effects of Solder	±0.01%	±0.10%
Moisture Resistance	±0.03%	±0.10%
Life	±0.03%	±0.10%

Dimensions

Dimensions (Inches)					
Model	A	B	C	D	E
W0603	0.063±0.004	0.031±0.004	0.020±0.004	0.008±0.004	0.008±0.004
W0805	0.081±0.005	0.050±0.005	0.020±0.006	0.015±0.005	0.015±0.005
W1206	0.126±0.006	0.063±0.005	0.024±0.004	0.015±0.005	0.015±0.005

