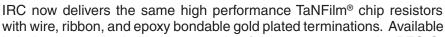


Ultra stable Tantalum Nitride resistor film system

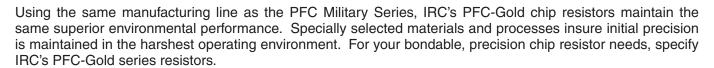
Wrap around

PFC Gold Series

- Wire, ribbon, or epoxy bondable gold plated terminations
- Available in 0402, 0603, 0805, 1206, 1505, 2010 and 2512 chip sizes
- Tested for COTS applications
- Absolute TCR to ±10ppm/°C
- · Mil screening available



in industry standard chip sizes ranging from 0402 to 2512, the PFC-Gold series provide the performance and precision necessary in a bonded circuit environment.





Model	Power Rating (70°C)	Max Voltage Rating (≤ √ P x R)	Temperature Range	ESD Sensitivity	Noise	Termination	Substrate
W0402	50mW	75V				20KÅ minimum	99.5% Alumina
W0603	100mW	75V					
W0805	250mW	100V					
W1206	333mW	200V	-65°C to +150°C	2KV to 4KV (HBM)	<-25dB		
W1505	350mW	100V		(1214)	plated gold	7	
W2010	800mW	175V					
W2512	1.0W	200V					

Environmental Data

Environmental Test MIL-PRF-55342	Maximum ∆R per Characteristic E	Performance		
Environmental lest Mil-Phr-35342	Maximum An per Characteristic E	Typical	Maximum	
Thermal Shock	±0.10%	±0.02%	±0.10%	
Low Temperature Operation	±0.10%	±0.01%	±0.05%	
Short Time Overload	±0.10%	±0.01%	±0.05%	
High Temperature Exposure	±0.10%	±0.03%	±0.10%	
Effects of Solder	±0.20%	±0.01%	±0.10%	
Moisture Resistance	±0.20%	±0.03%	±0.10%	
Life	±0.50%	±0.03%	±0.10%	

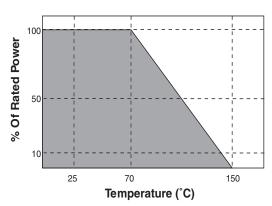


IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

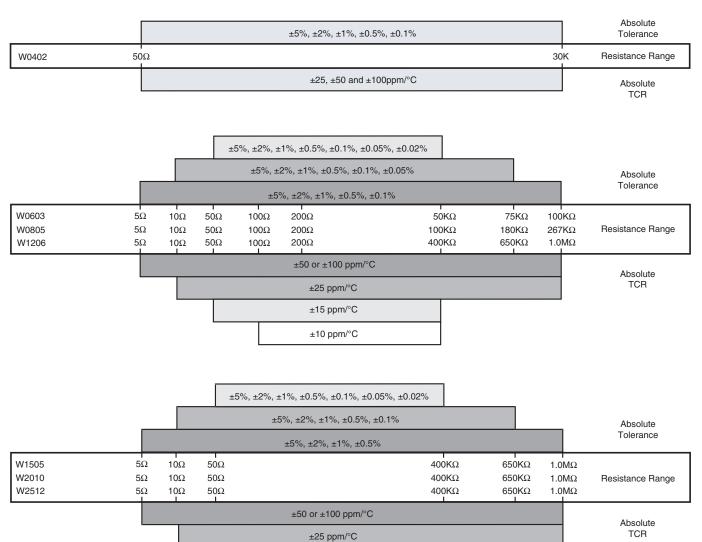




Power Derating Curve

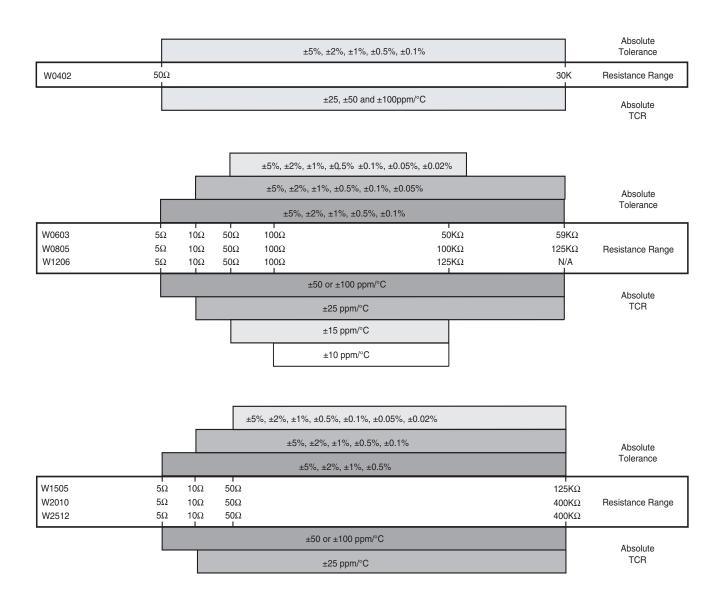


Manufacturing Capabilities Data (Commercial Product Only)



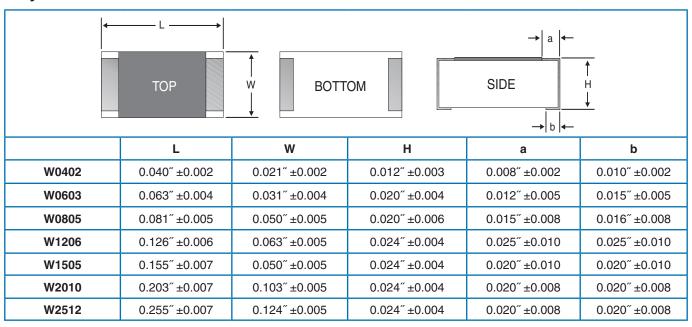


Manufacturing Capabilities Data (MIL Screened Only)





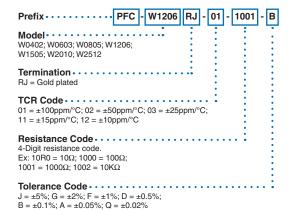
Physical Data



Mil Screened Precision Chip Resistors

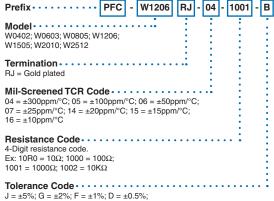
IRC's PFC chip resistors are available with Mil screening. These chips are manufactured on the same production line as our Milqualified chip resistors and screened in accordance with MIL-PRF-55342. These chips are identified with IRC's ordering information and not with Mil marking.

Commercial Ordering Data



For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

Mil Screened Ordering Data*



 $B = \pm 0.1\%$; $A = \pm 0.05\%$; $Q = \pm 0.02\%$

*Please refer to our PFC Military datasheet to order parts qualified to MIL-PRF-55342.