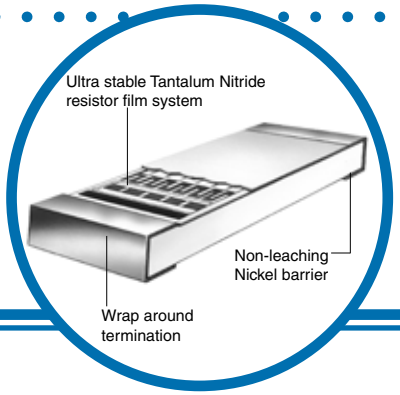
High Temperature TaNFilm® Chip Resistors

TT electronics
Welwyn Components

PFC HT Series

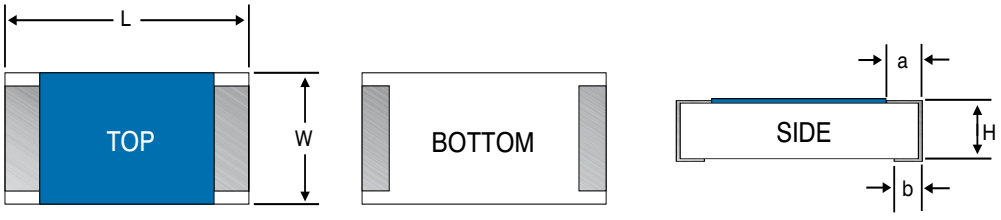
- Available in industry standard 0603, 0805 and 1206 chip sizes
- Gold and 100% tin (Pb-free) terminations available
- Self-passivating TaNFilm® element
- Absolute TCR to ±25ppm/°C



Electrical Data

Model	Ohmic Range	Absolute TCR	Rated Power	Rated Voltage (not to exceed rated power)	Temperature Range	Termination	Substrate
W0603HT	10Ω to 10KΩ	±100ppm/°C	0.0625W	33.3V	-55°C to 200°C	Gold and 100% tin (Pb-free)	99.5% Alumina
	25Ω to 10KΩ	±50ppm/°C					
	50Ω to 10KΩ	±25ppm/°C					
W0805HT	10Ω to 20KΩ	±100ppm/°C	0.100W	50V			
	25Ω to 20KΩ	±50ppm/°C					
	50Ω to 20KΩ	±25ppm/°C					
W1206HT	5Ω to 85KΩ	±100ppm/°C	0.125W	100V			
	25Ω to 85KΩ	±50ppm/°C					
	50Ω to 85KΩ	±25ppm/°C					

Physical Data



	L	W	H	a	b
W0603	1.60±0.1	0.79 ±0.1	0.51 ±0.1	0.30±0.13	0.38±0.13
W0805	2.06±0.13	1.27±0.13	0.51±0.1	0.41±0.20	0.41±0.20
W1206	3.20±0.15	1.60±0.13	0.61±0.1	0.64±0.25	0.64±0.25

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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Welwyn
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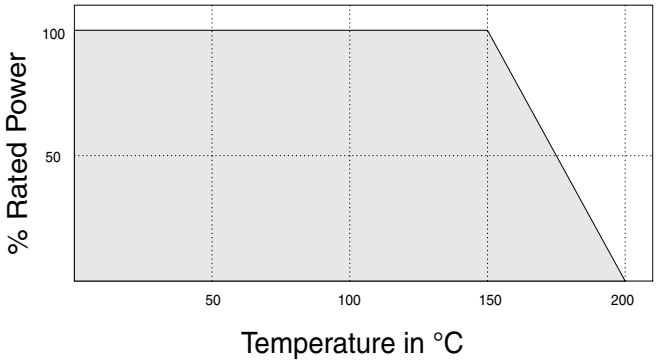
Performance Data

Environmental Test MIL-PRF-55342	Performance	
	Typical	Maximum
Thermal Shock	±0.02%	±0.10%
Short Time Overload	±0.02%	±0.05%
High Temperature Exposure	±0.03%	±0.10%
Effects of Solder	±0.01%	±0.10%
Moisture Resistance	±0.03%	±0.10%
Life (1000 hours, 200°C, no load)	±0.8%	±1.0%
Life (1000 hours, 150°C, rated power)	±0.2%	±0.5%

Rated Power vs Temperature Data



Ordering Data

W1206 HT - 01 - 100R - F

Chip Size
W1206; W0805; W0603

Termination
HT = High temperature chip resistor with gold plated terminations
HTLF = High temperature chip resistor with 100% tin (Pb-free) terminations

TCR Code
01 = ±100ppm/°C; 02 = ±50ppm/°C; 03 = ±25ppm/°C

Value (use IEC62 code)

Tolerance (use IEC62 code)
J = ±5%; G = ±2%; F = ±1%

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