# **High Temperature TaNFilm® Chip Resistors**

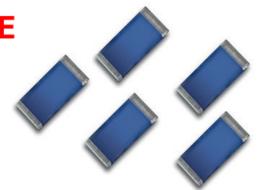


### **PFC HT Series**

## **OBSOLETE**

#### **Features**

- 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



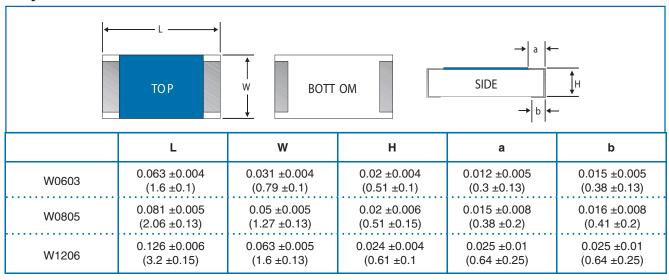


All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

### **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		33.3V	-55°C to 200°C	Gold and 100% tin (Pb-free)	99.5% Alumina
	25Ω to 10KΩ	±50ppm/°C	0.0625W				
	50Ω to 10KΩ	±25ppm/°C					
W0805HT	10Ω to 20KΩ	±100ppm/°C	0.100W	50V			
	25Ω to 20ΚΩ	±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



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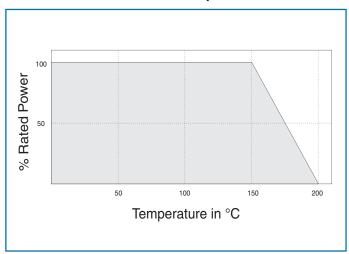
**PFC HT Series** 

### **OBSOLETE**

### Performance Data

Environmental Test	Performance		
MIL-PRF-55342	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 Procedure**

This product has two valid part numbers:

European (Welwyn) Part Number: W1206HT-01-1K0F (1206, 100ppm/°C, 1 kilohm ±1%, Au terminations)



1	2	3	4	5	6	
Type	Size	Termination	TCR	Value	Tolerance	Packing
W=PFC	0603	HT = High temp. with	03 = ±25ppm/°C	E24 = 3/4 characters	F = ±1%	All sizes 1000/reel
	0805	Au terminations	02 = ±50ppm/°C	E96 = 3/4 characters	G = ±2%	
	1206	HTLF = High temp.	$01 = \pm 100 \text{ppm/}^{\circ}\text{C}$		J = ±5%	
		with 100% Sn		K = kilohms		•
		terminations			•	

USA (IRC) Part Number: PFC-W1206HT-01-1001-F (1206, 100ppm/°C, 1 kilohm ±1%, Au terminations)



1	2	3	4	5	6		
Family	Model	Termination	TCR	Value	Tolerance	Packing	
PFC	W0603	HT = High temp. with	03 = ±25ppm/°C	3 digits + multiplier	F = ±1%	All sizes	1000/reel
	W0805	Au terminations	02 = ±50ppm/°C	R = ohms for	G = ±2%		
	W1206	HTLF = High temp.	01 = ±100ppm/°C	values <100 ohms	J = ±5%		
		with 100% Sn terminations					