TF2000 Series

Thick Film Resistors



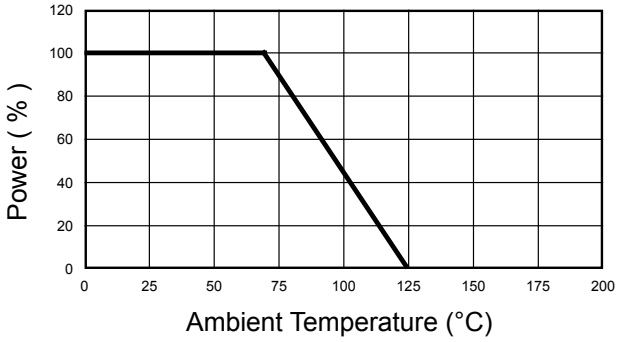
- **Resistances from 100 to 20GOhms**
- **Power Rating 0.125 to 3Watts**
- **Resistance Tolerances to ±1%**
- **TCR's to ±100ppm/K**
- **Voltage Ratings to 20KV**
- **Voltage Coefficient : 50ppm/V (MAX)**
- **Thick Film Resistance Element**

SPECIFICATIONS

Type	2003	2004	2005	2006	2007	2009
Power Rating (W @ 70 °C)	0.125	0.25	0.40	0.70	1.5	3.0
Working Voltage (rms)	100	250	750	2000	10000	20000
Available Resistances at each Tolerance Tolerance 0.5% upon request						
±1%	100 - 10M	10k - 10M	10k - 22M	100k - 100M	100k - 100M	100K - 100M
±2%	100 - 25M	10k - 100M	10k - 200M	100k - 250M	100k - 500M	100K - 500M
±5%	100 - 150M	10k - 250M	10k - 500M	100k - 1G	100k - 2G	100K - 2G
±10%	100 - 500M	10k - 1G	10k - 10G	100k - 10G	100k - 10G	100K - 20G
Available Resistances at each Temperature Coefficient						
±100 ppm/K	≤ 25M	≤ 50M	≤ 250M	≤ 250M	≤ 250M	≤ 250M
±250 ppm/K	> 25M	> 50M	> 250M	> 250M	> 250M	> 250M

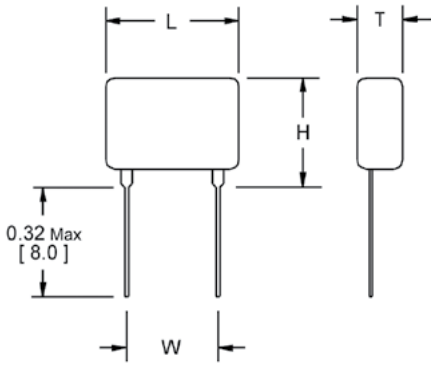
Specification	Value
Resistance Range	100 Ohms to 20G Ohms
Tolerances	±1% to ±10%
Temperature Coefficient	±100ppm/K / ±250ppm/K
Temperature Range	-55°C to +125°C
Insulation Resistance	>10000 MOhms
Shelf Life Stability	1% / 5 Years
Climatic Category	55/125/56
Max Soldering Temperature	+260°C / 10s
Voltage Coefficient	< 5ppm/V

Power Derating Curve

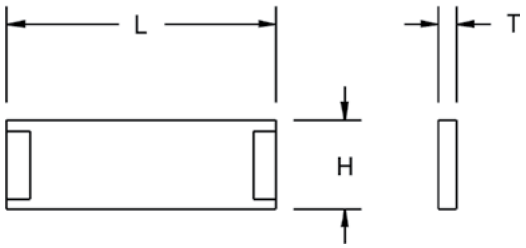


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SPECIFICATIONS (continued)



Type	H (MAX)	L (MAX)	T (MAX)	W ±0.015" [±0.4mm]
TF2003	0.236 [6.0]	0.197 [5.0]	0.100 [2.5]	0.100 [2.5]
TF2004	0.236 [6.0]	0.287 [7.3]	0.100 [2.5]	0.200 [5.1]
TF2005	0.236 [6.0]	0.492 [12.5]	0.100 [2.5]	0.400 [10.2]
TF2006	0.236 [6.0]	0.886 [22.5]	0.100 [2.5]	0.800 [20.3]
TF2007	0.354 [9.0]	1.535 [39.0]	0.100 [2.5]	1.400 [35.6]
TF2009	0.354 [9.0]	3.071 [78.0]	0.100 [2.5]	2.900 [73.7]



Type	H (MAX)	L (MAX)	T (MAX)
TFC2004	0.153 [3.9]	0.260 [6.6]	0.032 [0.8]
TFC2005	0.153 [3.9]	0.465 [11.8]	0.032 [0.8]
TFC2006	0.153 [3.9]	0.866 [22.0]	0.032 [0.8]
TFC2007	0.26 [6.6]	1.512 [38.4]	0.032 [0.8]

Ordering Information

Part Description: Part Type - Resistance - Tolerance - TCR
Example: TF2009 100 MOhms 2% 100ppm
(Note: If no TCR is specified / the highest value will be supplied)