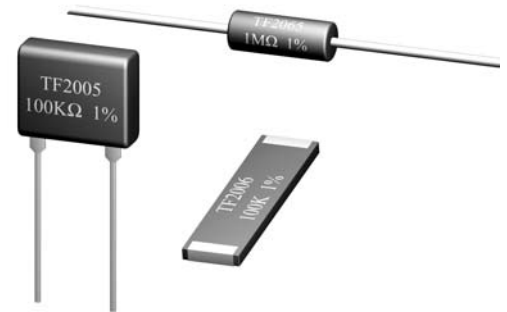




TF2000 Series Thick Film Resistors

- Thick Film Resistance Element
- Resistance From 100Ω to 20GΩ
- Tolerances from ± 1% to ± 10%
- TCR's from ± 100 ppm/°C to ± 250 ppm/°C
- Working Voltages to 20KV
- Voltage Coefficient Less than 5ppm/V



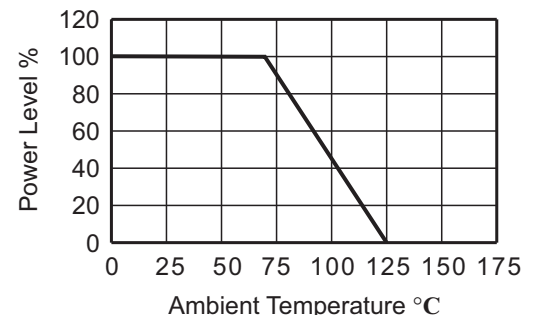
This excellent thick film design features resistances to 20G ohms in three versatile packages: axial or radial leads for thru-hole PCB construction and chip for SMD applications. These products feature tight tolerances and low TCR and voltage coefficients for accurate and reliable circuit performance.

SPECIFICATIONS

TF Size	2003	2004	2005	2006	2007	2009	2065
Power Rating (W)	0.125	0.25	0.40	0.70	1.5	3.00	0.50
Working Voltage	100	250	750	2,000	10,000	20,000	1,000
Available Resistances At Each Tolerance							
± 1% Tolerance	100-10M	10K-10M	10K-22M	100K-100M	100K-100M	1M-100M	10K-22M
± 2% Tolerance	>10M-25M	>10M-100M	>22M-200M	>100M-250M	>100M-500M	>100M-500M	>22M-200M
± 5% Tolerance	>25M-150M	>100M-250M	>200M-500M	>250M-1G	>500M-2G	>500M-2G	>200M-500M
± 10% Tolerance	>150M-500M	>250M-1G	>500M-10G	>1G-10G	>2G-10G	>2G-20G	>500M-10G
Available Resistances At Each Temperature Coefficient							
± 100 ppm/°C	≤ 25M	≤ 50M	≤ 250M	≤ 250M	≤ 250M	≤ 250M	≤ 150M
± 250 ppm/°C	> 25M	> 50M	> 250M	> 250M	> 250M	> 250M	> 150M

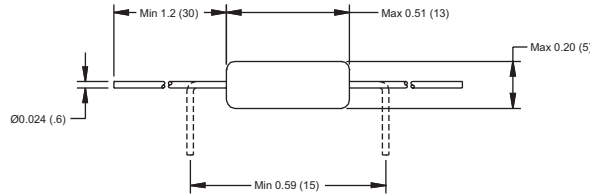
- Temperature Range** - -55°C to 125°C
- Climatic Category** - 55/125/56
- Max. Soldering Temperature** - 260°C, 10 Seconds
- Voltage Coefficient** - 5 ppm/V
- Insulation Resistance** - > 10¹⁰Ω

Power Derating Curve

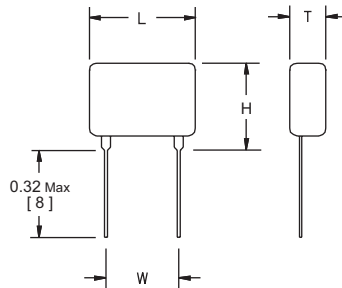


DIMENSIONS

TF2065



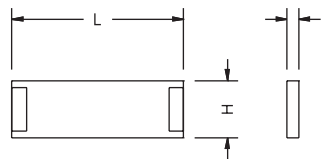
Radial Style "TF"



Size	H (MAX)	L (MAX)	T (MAX)	W (MAX)
TF2003	0.24 (6.0)	0.20 (5.0)	0.10 (2.5)	0.10 (2.5)
TF2004	0.24 (6.0)	0.29 (7.3)	0.10 (2.5)	0.20 (5.1)
TF2005	0.24 (6.0)	0.49 (12.5)	0.10 (2.5)	0.40 (10.2)
TF2006	0.24 (6.0)	0.89 (22.5)	0.10 (2.5)	0.80 (20.3)
TF2007	0.35 (9.0)	1.54 (39.0)	0.10 (2.5)	1.40 (35.6)
TF2009	0.35 (9.0)	3.07 (78.0)	0.10 (2.5)	2.90 (73.7)

Units: in. (mm)

Chip Style "TFC"



Size	H (MAX)	L (MAX)	T (MAX)
TFC2004	0.15 (3.9)	0.26 (6.6)	0.032 (0.8)
TFC2005	0.15 (3.9)	0.46 (11.8)	0.032 (0.8)
TFC2006	0.15 (3.9)	0.87 (22.0)	0.032 (0.8)
TFC2007	0.23 (5.9)	1.51 (38.4)	0.032 (0.8)

Units: in. (mm)

Ordering information:

Type/Size - Resistance - Tolerance - TCR

Example: **TF2009 - 100M - 2 - 100**

(Note: if no TCR is specified, the highest value will be supplied)