

SM-9 Series

High Resistance / Thick Film Chip Resistors



- Resistances from 100k to 1T Ohms
- Power Rating 0.125 to 1 Watt
- Resistance Tolerances to $\pm 5\%$
- TCR's to ± 50 ppm/K
- Non-Magnetic (contact PtAg)
- High Value Thick Film Resistance Element
- Sizes: 0805 / 1206 / 2512

SPECIFICATIONS

Type	0805	1206	2512
Power Rating (W)	0.125	0.25	1.0
Working Voltage (VAC)	Untrimmed 600	1000	3000
Resistance Range (Ω)	Tolerances Available (%) Temperature Coefficients Available (\pm ppm/K) Voltage Coefficient (ppm / V) Other specifications available upon request		
100k - 100M	5% 50 <50ppm/V	5% 50 <50ppm/V	5% 50 <10ppm/V
>100M - 1G	5% 100 <250ppm/V	5% 100 <100ppm/V	5% 100 <25ppm/V
>1G - 10G	5% 100 <500ppm/V	5% 100 <250ppm/V	5% 100 <100ppm/V
>10G - 100G	10% 500 <1000ppm/V	10% 500 <1000ppm/V	5% 500 <250ppm/V
>100G - 1T	10% 1000 <2000ppm/V	10% 1000 <2000ppm/V	5% 1000 <500ppm/V

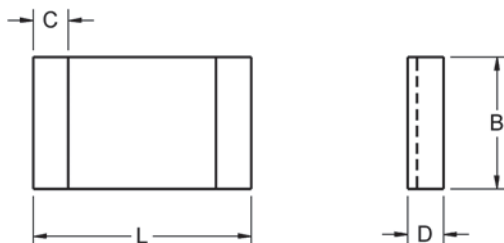
¹W @ 70 °C / 0W @ 155 °C

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SPECIFICATIONS (continued)

Specification	Value		
Temperature Range	-55°C to +155°C		
Climactic Category	55 / 155 / 56		
Solderability	250°C / 3s (up to 6 month after shipment resp. at storage in Nitrogen)		
Max. Soldering Temperature	260°C / 10s		
Long Term Stability	Max ΔR		
	<1 GΩ	1 GΩ - 10 GΩ	>10 GΩ
Storage 125°C / 1000h	±0.5%	±1%	±2%
Maximum Voltage / 1000h	±0.5%	±1%	±2%



Type	Dimensions			
	L	B	D	C
0805	0.080 +0.006 / -0.002 [2.0 +0.15 / -0.05]	0.050 +0.006 / -0.002 [1.25 +0.15 / -0.05]	0.016 +0.006 / -0.002 [0.4 +0.15 / -0.05]	0.012 +0.008 / -0.004 [0.3 +0.2 / -0.1]
1206	0.126 +0.006 / -0.002 [3.2 +0.15 / -0.05]	0.060 +0.008 / -0.002 [1.5 +0.2 / -0.05]	0.016 +0.006 / -0.002 [0.4 +0.15 / -0.05]	0.012 +0.008 / -0.004 [0.3 +0.2 / -0.1]
2512	0.250 +0.006 / -0.002 [6.3 +0.15 / -0.05]	0.138 +0.008 / -0.002 [3.5 +0.2 / -0.05]	0.024 +0.006 / -0.002 [0.6 +0.15 / -0.05]	0.035 ±0.008 [0.9 ±0.2]

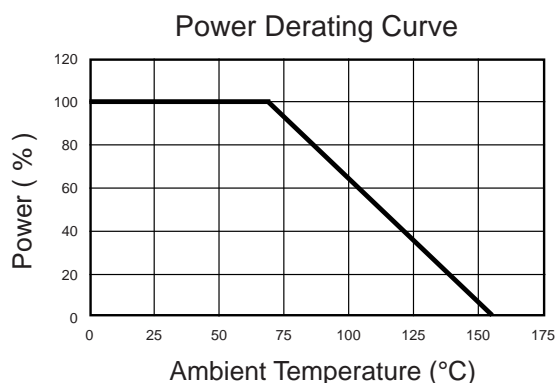
Packaging:

Bulk or Tape & Reel per IEC 286-3 / EIA 481-1-A

Tape width 8mm / Reel Diameter 180 or 330mm

Minimum quantity Bulk / 100 pieces per value

Minimum quantity Tape & Reel / 1000 pieces per value



Ordering Information

Part Number - Resistance - Tolerance - TCR - Packaging

Example: SM-9 2512 10GOhms 10% 500ppm Tape

(Note: if no TCR is Specified / The highest value will be supplied)