

# SAA / SMA / SCA Series

Precision Metal Film Resistors

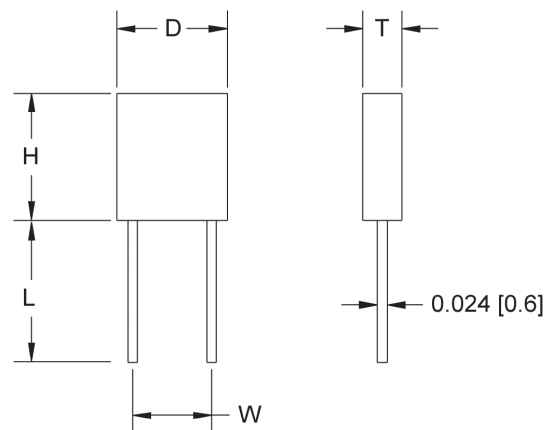


- Resistances from 10 to 1MΩ
- Power Rating 0.25Watts
- Resistance Tolerances to  $\pm 0.05\%$
- TCR to  $\pm 5\text{ppm/K}$
- Non-Inductive Design
- Space Efficient Radial Leads

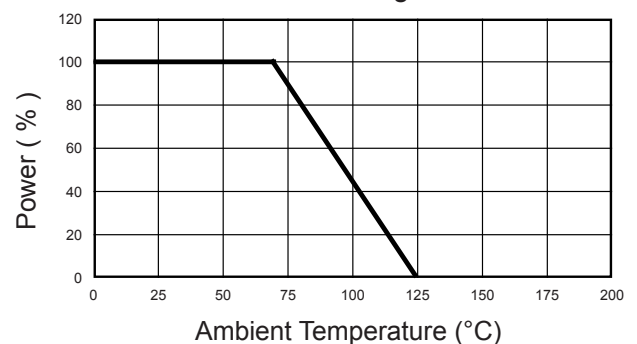
## SPECIFICATIONS

Type	Power Rating (Watts @ 70°C)	Resistance Range	Maximum Working Voltage	Dimensions				
				D +0.000 / -0.020 [+0.0 / -0.5mm]	H +0.000 / -0.020 [+0.0 / -0.5mm]	L $\pm 0.040$ [ $\pm 1.0\text{mm}$ ]	W $\pm 0.008$ [ $\pm 0.2\text{mm}$ ]	T +0.000 / -0.020 [+0.0 / -0.5mm]
SCA	0.25	10 to 330k	300	0.205 [5.2]	0.315 [8.0]	0.390 [10.0]	0.100 [2.5]	0.090 [2.3]
SAA	0.25	10 to 1M	350	0.275 [7.0]	0.315 [8.0]	0.390 [10.0]	0.200 [5.1]	0.098 [2.5]
SMA	0.25	10 to 500k	350	0.433 [11.0]	0.170 [4.3]	0.492 [12.5]	0.400 [10.2]	0.098 [2.5]

Specification	Value
Resistance Range	10 Ohms to 1MΩ
Tolerances	$\pm 0.1\%$ to $\pm 1\%$ $\pm 0.05\%$ ( $100\Omega < R < 100\text{K}\Omega$ )
Temperature Coefficient	$\pm 10\text{ppm/K}$ / $\pm 25\text{ppm/K}$ $\pm 3\text{ppm/K}$ ( $100\Omega < R < 100\text{K}\Omega$ )
Temperature Range	$-25^\circ\text{C}$ to $+125^\circ\text{C}$
Insulation Resistance	$>10000\text{ M}\Omega$
Environmental Performance (MIL-STD 202)	$\Delta R$
Load Life	$\pm 0.1\%$
Moisture Resistance	$\pm 0.1\%$
Temperature Cycling	$\pm 0.05\%$
Short Time Overload	$\pm 0.01\%$
Vibration	$\pm 0.01\%$



Power Derating Curve



## Ordering Information

Part Number - Resistance - Tolerance - TCR  
 Example: SAA 10 kΩ 0.1% 10ppm

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