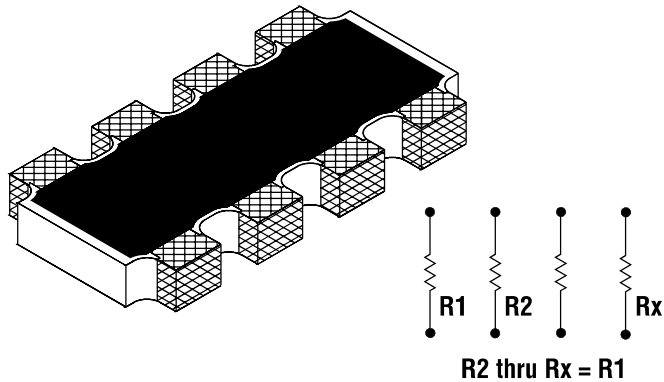


# Surface Mount Resistor Networks



SMR Series of precision resistor networks for fine pitch, surface mount applications. These networks feature a lead pitch of (0.031") and are available in 4 to 16 pin-out styles. The standard value range is 2  $\Omega$  to 10 M $\Omega$ , isolated resistors. Custom configurations are available. Advanced processing techniques, including abrasively trimmed resistors, ensures maximum performance and stability.



## PART NUMBER DESIGNATION

**EXAMPLE:** SMR8S-1001J-NS62TR

*SMR Series, (8) 1 K $\Omega$  Resistors,  $\pm$ 5% Abs. Tol., Nickel, Sn62 Solder, Tape & Reel*

<b>Style:</b> SMR	Surface Mount Resistor
<b>Type:</b> 8	4, 6, 8, 10, 12, 14, 16
<b>Termination:</b> S	S = Silver
<b>Material</b>	Base Metal
<b>Value:</b> 1001	1 K $\Omega$ <i>Four digits (xxxx) with provisions for five digits (xxxxx) if necessary. The first three digits represent significant figures. The last digit represents the number of zeros to follow. When fractional values of an ohm are required, the letter "R" is used as a decimal point. -</i>
<b>Tolerance:</b> J	J = 5% K = 10% M = 20%
<b>Termination:</b> NS62	NS60 = Nickel Barrier, Sn60 NS62 = Nickel Barrier, Sn62 NS63 = Nickel Barrier, Sn63 NS96 = Nickel Barrier, Sn96 NI50 = Nickel Barrier, In50 NI75 = Nickel Barrier, In75 NU = Nickel, Gold Plate
<b>Option:</b> TR	TR = Tape and Reel ( <i>Heat seal std</i> ) <i>Pressure seal &amp; Paper tape available</i> <i>Packaged in chip trays if not specified</i> X = <i>Special Requirements Code</i>



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Style	Type	Number of Resistors	Number of Pin-Outs	Length Inches (mm)	Width Inches (mm)	Thickness Inches (mm)
SMR	4	2	4	0.064 ±0.005 (1.626 ±0.127)	0.063 ±0.005 (1.600 ±0.127)	0.020 ±0.005 (0.508 ±0.127)
	6	3	6	0.094 ±0.005 (2.388 ±0.127)	0.063 ±0.005 (1.600 ±0.127)	0.020 ±0.005 (0.508 ±0.127)
	8	4	8	0.126 ±0.005 (3.200 ±0.127)	0.063 ±0.005 (1.600 ±0.127)	0.020 ±0.005 (0.508 ±0.127)
	10	5	10	0.157 ±0.005 (3.988 ±0.127)	0.063 ±0.005 (1.600 ±0.127)	0.020 ±0.005 (0.508 ±0.127)
	12	6	12	0.189 ±0.005 (4.801 ±0.127)	0.063 ±0.005 (1.600 ±0.127)	0.020 ±0.005 (0.508 ±0.127)
	14	7	14	0.220 ±0.005 (5.588 ±0.127)	0.063 ±0.005 (1.600 ±0.127)	0.020 ±0.005 (0.508 ±0.127)
	16	8	16	0.252 ±0.005 (6.401 ±0.127)	0.063 ±0.005 (1.600 ±0.127)	0.020 ±0.005 (0.508 ±0.127)

## Mechanical Data

**Substrate:** 96% Alumina

*Optional marking and custom configurations available*

## Electrical Performance Characteristics

Test per MIL-PRF-55342	MSI Typical
Short Term Overload	±0.03%
High Temperature Exposure	±0.05%
Thermal Shock	±0.07%
Low Temperature Operation	±0.05%
Resistance to Bonding Exposure / Soldering Heat	±0.09%
Moisture Resistance	±0.06%
Stability (Life 70°C 2,000Hrs)	±0.04%
Stability (Life 70°C 10,000Hrs)	±0.07%

## Electrical Data

**Power Rating:** 0.063 Watts per Resistor ( $P = E^2/R$ )

**Voltage Rating:** 40 Volts per Resistor

**TCR:**

2 Ω to < 5 Ω:	±300ppm/°C
5 Ω to < 100 KΩ:	±150ppm/°C
100 KΩ to < 1 MΩ:	±200ppm/°C
1 MΩ to < 10 MΩ:	±300ppm/°C