

# NICHROME ON SILICON

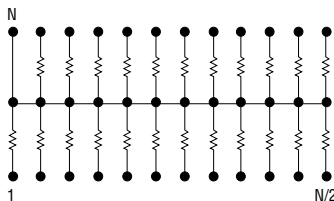
## Bussed Circuit Thin Film Resistor Networks

NEW PRODUCT



### SCHEMATIC

Bussed Resistor Network



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### ELECTRICAL

Standard Resistance Range, Ohms	1K to 30K
Operating Temperature Range	-55°C to +125°C
Interlead Capacitance	<2pF
Insulation Resistance	≥10,000 Megohms
Maximum Operating Voltage	100Vdc or $\sqrt{\text{PR}}$
Noise, Maximum (MIL-STD-202, Method 308)	-25dB

### ENVIRONMENTAL

Thermal Shock plus Power Conditioning, Maximum	$\Delta R$ 0.1%
Short Time Overload, Maximum	$\Delta R$ 0.1%
Terminal Strength	$\Delta R$ 0.1%
Moisture Resistance, Maximum	$\Delta R$ 0.1%
Mechanical Shock, Maximum	$\Delta R$ 0.1%
Vibration, Maximum	$\Delta R$ 0.1%
Low Temperature Storage	$\Delta R$ 0.05%
High Temperature Exposure, Maximum	$\Delta R$ 0.1%
Resistance to Solder Heat, Maximum	$\Delta R$ 0.1%
Marking Permanency	per MIL-STD-202, Method 215
Flammability	UL-94V-O Rated
Storage Temperature Range	-55°C to +125°C

Specifications subject to change without notice.

## MECHANICAL

Lead Plating	80/20 Tin Lead
Lead Material	Copper Alloy
Lead Configuration	Gull Wing
Lead Coplanarity	0.004" (0.102mm)
Substrate Material	Silicon
Resistor Material	Passivated Nichrome
Body Material	Molded Epoxy

## TOLERANCES

Accuracy Code	F	G	J
Absolute Resistance Tolerances at 25°C	1.0%	2.0%	5.0%
Ratio Tolerances at 25°C	1.0%	N/A	N/A
Temperature Coefficient of Resistance (TCR Code)			±25ppm/°C (Q) ±50ppm/°C (P) ±100ppm/°C (S) ±200ppm/°C (L)
Temperature Coefficient of Resistance, Tracking			±5ppm/°C

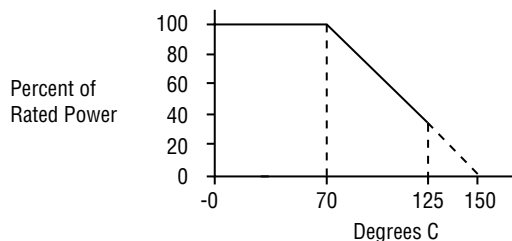
Consult factory for tighter tolerances.

## PACKAGE POWER, WATTS @ 70°C, MAX.

QSOP			SOIC (NARROW)			SOIC (WIDE)			P-DIP		
16	20	24	8	14	16	16	20	24	8	14	16
0.75	1.0	1.0	0.4	0.7	0.8	1.0	1.2	1.2	0.4	0.6	0.8

Power per resistor @ 70°C, Max. is 100mW, not to exceed package power.

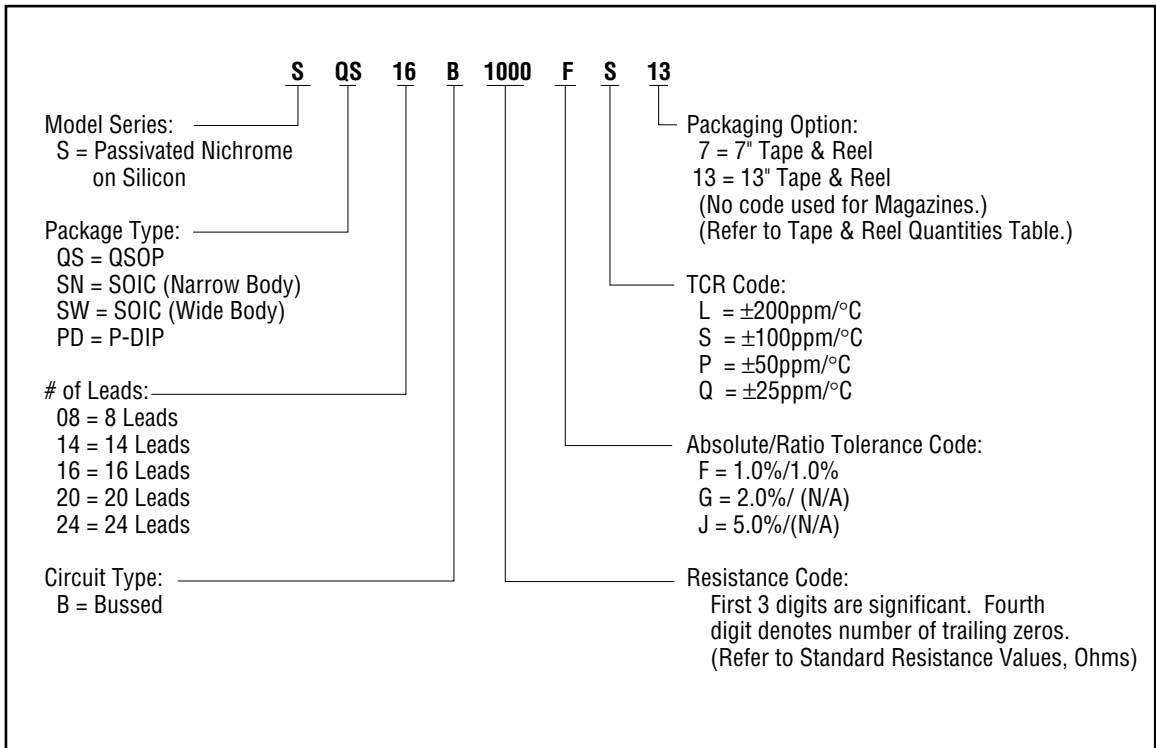
## POWER DERATING CURVE



## OUTLINE DIMENSIONS

Refer to standard package Outline Dimensions at the end of the Model NiCr on Si section.

## ORDERING INFORMATION



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## CUSTOM SOLUTIONS

Networks designed to meet your specific electrical and packaging requirements are available. Please contact the factory for technical assistance, price and availability.