NICHROME ON SILICON

GTL Termination Circuit

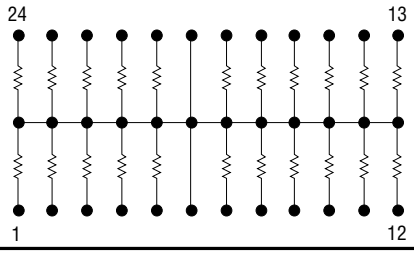
Thin Film

Resistor Networks

NEW PRODUCT

SCHEMATIC

GTL (Gunning Transceiver Logic)
Termination Network
24 Pin



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ELECTRICAL

Standard Resistance Range, Ohms	22 to 100
Operating Temperature Range	-55°C to +125°C
Interlead Capacitance	<2pF
Insulation Resistance	≥10,000 Megohms
Maximum Operating Voltage	100Vdc or √PR
Noise, Maximum (MIL-STD-202, Method 308)	-25dB

ENVIRONMENTAL

Thermal Shock plus Power Conditioning, Maximum	ΔR 0.1%
Short Time Overload, Maximum	ΔR 0.1%
Terminal Strength	ΔR 0.1%
Moisture Resistance, Maximum	ΔR 0.1%
Mechanical Shock, Maximum	ΔR 0.1%
Vibration, Maximum	ΔR 0.1%
Low Temperature Storage	ΔR 0.05%
High Temperature Exposure, Maximum	ΔR 0.1%
Resistance to Solder Heat, Maximum	ΔR 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

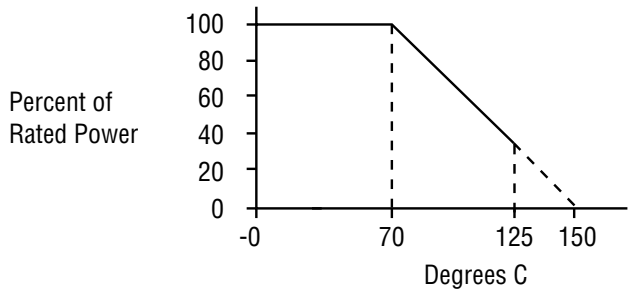
Accuracy Code	F	G	J
Absolute Resistance Tolerances at 25°C	1.0%	2.0%	5.0%
Ratio Tolerances at 25°C	1.0%	N/A	N/A
Temperature Coefficient of Resistance			±25ppm/°C
Temperature Coefficient of Resistance, Tracking			±5ppm/°C

PACKAGE POWER, WATTS @ 70°C, MAX.

QSOP 24
1.0

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

POWER DERATING CURVE



OUTLINE DIMENSIONS

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

ORDERING INFORMATION

S QS 24 G 47R0 F 13

Model Series:
S = Passivated Nichrome on Silicon

Package Type:
QS = QSOP

# of Leads:
24 = 24 Leads

Circuit Type:
G = GTL Termination

Resistance Code:
First 3 digits are significant. Fourth digit denotes number of trailing zeros.
(Refer to Standard Resistance Values, Ohms)

Absolute/Ratio Tolerance Code:
F = 1.0%/1.0%
G = 2.0%/(N/A)
J = 5.0%/(N/A)

Packaging Option:
7 = 7" Tape & Reel
13 = 13" Tape & Reel
(No code used for Magazines.)
(Refer to Packaging Quantities Table.)

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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.