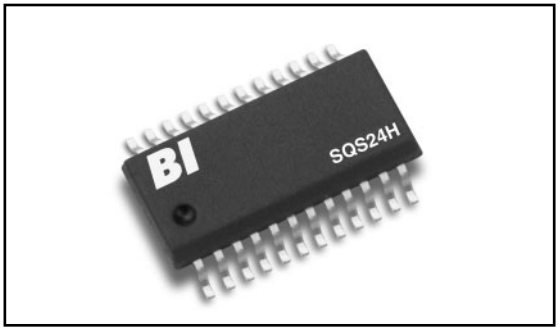
NICHROME ON SILICON

HSTL Termination Circuit

Thin Film

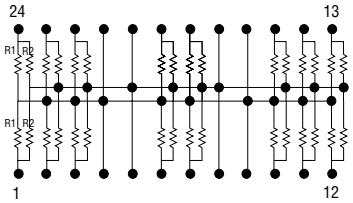
Resistor Networks

NEW PRODUCT



SCHEMATIC

HSTL (High Speed Transceiver Logic)
Termination Network
24 Pin



ELECTRICAL

Standard Resistance Range, Ohms	75 to 200
Operating Temperature Range	-55°C to +125°C
Interlead Capacitance	<2pF
Insulation Resistance	≥10,000 Megohms
Noise, Maximum (MIL-STD-202, Method 308)	-25dB
Maximum Operating Voltage	100Vdc or √PR

ENVIRONMENTAL

Thermal Shock plus Power Conditioning	ΔR 0.1%
Moisture Resistance	ΔR 0.1%
Mechanical Shock	ΔR 0.1%
High Temperature Exposure, 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

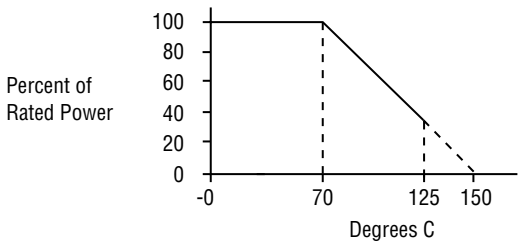
Accuracy Code	**F**	**G**	**J**
Absolute Resistance Tolerances at 25°C	1.0%	2.0%	5.0%
Ratio Tolerances at 25°C	1.0%	N/A	N/A
Temperature Coefficient of Resistance **(TCR Code)**			±100ppm/°C (S)
Temperature Coefficient of Resistance, Tracking			±5ppm/°C

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 Outline Dmensions at the end of the Model NiCr on Si section.

ORDERING INFORMATION

S QS 24 H 01 F S 13

Model Series:
S = Passivated Nichrome on Silicon

Package Type:
QS = QSOP

# of Leads:
24 = 24 Leads

Circuit Type:
H = HSTL Termination

Resistance Code (R1/R2):
01 = 94/94 Ohms
02 = 100/100 Ohms
03 = 112/112 Ohms
04 = 136/136 Ohms

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

TCR Code:
S = ±100ppm/°C

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.