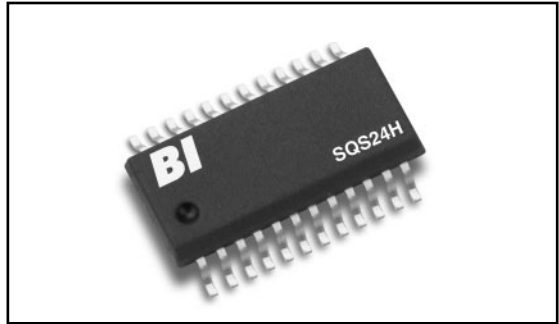


NICHROME ON SILICON

HSTL Termination Circuit

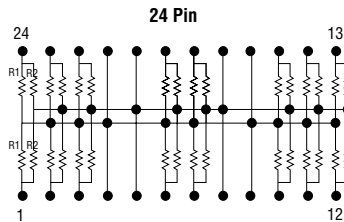
Thin Film Resistor Networks

NEW PRODUCT



SCHEMATIC

HSTL (High Speed Transceiver Logic)
Termination Network



4

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-0 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 |

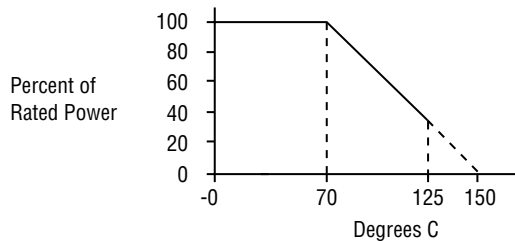
PACKAGE POWER, WATTS @ 70°C, MAX.

QSOP 24

1.0

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

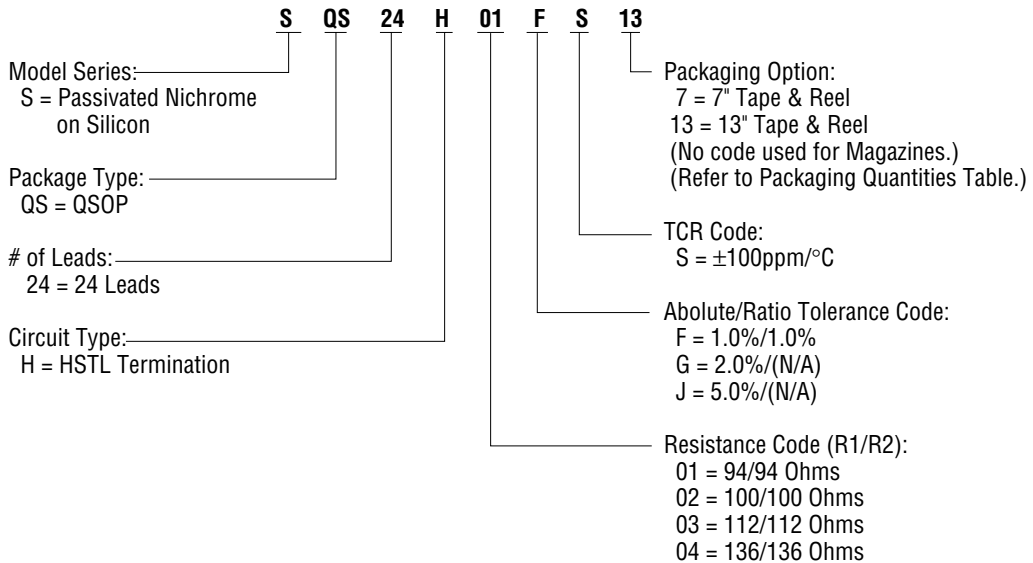
POWER DERATING CURVE



OUTLINE DIMENSIONS

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

ORDERING INFORMATION



4

CUSTOM SOLUTIONS

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