

MODELS

SQSxxA¹, SQSxxB, SSNxxA, SSNxxB,
SSWxxA, SSWxxB, SPDxxA, SPDxxB

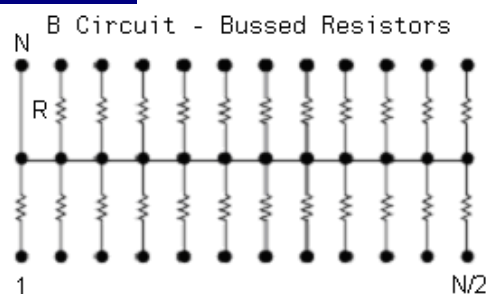
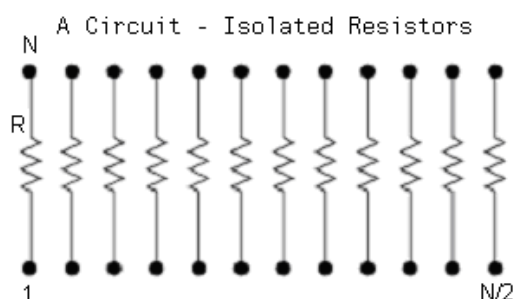


Isolated and bussed circuits
Thin film resistor network
RoHS compliant available

FEATURES

Precision Nichrome Resistors on Silicon	Passivation coating provides protection in humid environments
Industry Standard Packaging	JEDEC 95
Ratio Tolerances	< ± 0.05%
TCR Tracking Tolerances	< ± 5 ppm/°C

SCHEMATICS



ELECTRICAL²

Standard Resistance Range ³	1K ohms to 100K ohms (Isolated) 1K ohms to 30K ohms (Bussed)
Resistor Tolerances	± 0.25%
Ratio Tolerances	± 0.05%
TCR	Reference TCR table
Operating Temperature Range	-55°C to +125°C
Interlead Capacitance	< 2 pF
Insulation Resistance	= 10,000 Megohms
Maximum Operating Voltage	100 Vdc or v PR
Noise, Maximum (MIL-STD-202, Method 308)	-25 dB
Resistor Power Rating at 70°C	0.1 Watts

¹ xx denotes package pin count. Reference package type section in this data sheet for description.

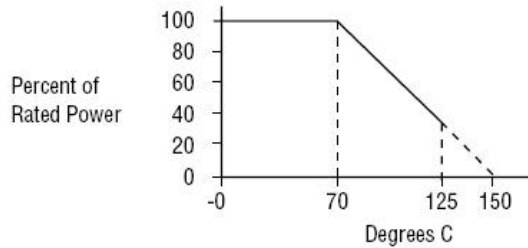
² Specifications subject to change without notice.

³ E96 codes available.

PACKAGE POWER, WATTS @ 70°C⁴

QSOP			SOIC (Narrow)			SOIC (Wide)			P-DIP		
16	20	24	8	14	16	16	20	24	8	14	16
0.6	0.7	0.8	0.4	0.7	0.8	1.0	1.2	1.2	0.4	0.6	0.8

POWER DERATING CURVE



ENVIRONMENTAL (MIL-R-83401)

Thermal Shock plus Power Conditioning	ΔR 0.25%
Short Time Overload	ΔR 0.1%
Terminal Strength	ΔR 0.1%
Moisture Resistance	ΔR 0.2%
Mechanical Shock	ΔR 0.25%
Vibration	ΔR 0.25%
Low Temperature Operation	ΔR 0.05%
High Temperature Exposure	ΔR 0.1%
Resistance to Solder Heat	ΔR 0.1%
Marking Permanency	Per MIL-STD-202, Method 215
Flammability	UL-94V-0 Rated
Storage Temperature Range	-55°C to +125°C

MECHANICAL

Lead Plating	80/20 Tin Lead (Standard) 100 matte Tin (RoHS)
Lead Material	Copper Alloy
Lead Configuration	Gull Wing
Lead Coplanarity	0.004" (0.102 mm)
Substrate Material	Silicon
Resistor Material	Passivated Nichrome
Body Material	Molded Epoxy

⁴ Maximum power per resistor @ 70°C is 100 mW, not to exceed package power.

BULK PACKAGING OPTIONS

Model + Pin Count	Quantity		
	7" Reel	13" Reel	Tubes
SQS16	1000	2500	100
SQS20	1000	2500	50
SQS24	1000	2500	50
SSN08	1000	2500	100
SSN14	500	2500	50
SSN16	500	2500	50
SSW16	500	1500	50
SSW20	500	1500	38
SPD08	N/A	N/A	50
SPD14	N/A	N/A	25
SPD16	N/A	N/A	25

TYPICAL MARKING

