imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



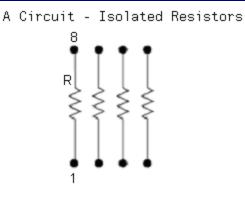
MODELS SFN08A, SFN08B

Isolated and bussed circuits Thin film resistor network RoHS compliant available

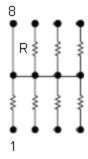
FEATURES

Precision Nichrome Resistors on Silicon	Passivation coating provides protection in humid environments
Industry Standard Packaging	8 pad SON ¹ 4mm square with 0.8 mm pitch (JEDEC MO-229D)
Ratio Tolerances	< ± 0.05%
TCR Tracking Tolerances	< ± 5 ppm/°C

SCHEMATICS



B Circuit - Bussed Resistors



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 Small outline no lead (SON) package is also referred to as quad flat no lead (QFN) or dual flat no lead (DFN) packages.

² Specifications subject to change without notice.

³ E96 codes available.





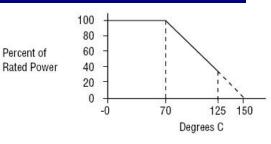


PACKAGE POWER, WATTS @70°C⁴

SFN08

0.4

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	∆R 0.25%	
Vibration	∆R 0.25%	
Low Temperature Operation	∆R 0.05%	
High Temperature Exposure	ΔR 0.1%	
Resistance to Solder Heat	ΔR 0.1%	
Marking Permanency	Per MIL-STD-202, Method 2	
Flammability	UL-94V-0 Rated	
Storage Temperature Range	-55°C to +125°C	

MECHANICAL

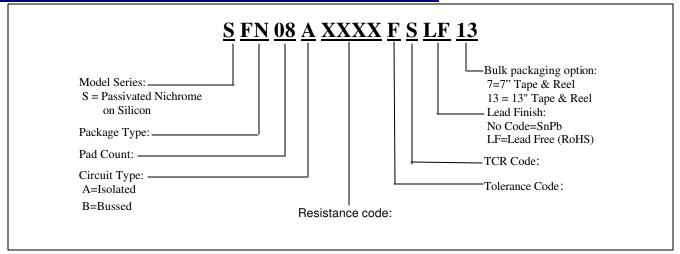
Pad Plating	80/20 Tin Lead (non-RoHS compliant) 100 matte Tin (RoHS compliant)
Pad Material	Copper Alloy
Pad Coplanarity	0.003" (0.08 mm)
Substrate Material	Silicon
Resistor Material	Passivated Nichrome
Body Material	Molded Epoxy



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

SFN08A, SFN08B

ORDERING INFORMATION⁵



PACKAGE TYPE				
	Package Codes	Package Size	Pad count	Mechanical Outline
SON	FN	4mm x 4mm	8	MO-229D

RESISTANCE

First 3 digits are significant. Fourth digit denotes number of trailing zeros. For values less than 100, use "R" to denote a decimal point. Example, 51 and 10000 ohms are coded as 51R0 and 1002 respectively. Standard values follow E96.

RESISTANCE TOLERANCE						
Accuracy Code at 25°C	СВ	D	FA	F	G	J
Absolute Resistance Tolerances (%)	±0.25	± 0.5	± 1.0	± 1.0	± 2.0	± 5.0
Ratio Tolerances (R1 Ref) (%)	± 0.1	± 0.1	±0.05	± 1.0	N/A	N/A

TEMPERATURE COEFFICIEN				
TCR Code (-55°C to 125°C)	Q	Р	S	L
Absolute (ppm/°C)	± 25	± 50	± 100	± 200
Tracking (R1 Ref) (ppm/°C)	±5	±5	N/A	N/A

BULK PACKAGING OPTIONS

	Quantity		
Model + Pad Count	7" Reel	13" Reel	
SFN08	1000	3000	

⁵ Contact customer service for custom designs and features.



