

RESISTORS RESISTOR NETWORK SIL

Low-profile

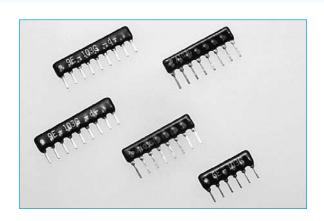
Epoxy dipped

5 to 13-pin

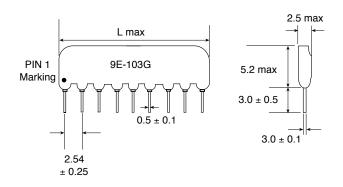
The Dubilier range of SIL networks features 2% accuracy in a low-cost package.

The low-profile epoxy package allows the device to be used in locations where moulded parts do not fit.

Isolated and common-terminal designs are available, allowing the simple, reliable insertion of up to 12 resistors at once.



OUTLINE DRAWING



No of Pins	5	6	7	8	9	10	11	12	13
L max	12.7	15.3	17.8	20.4	22.9	25.4	28.0	30.5	33.1

RANGE & TOLERANCES

Parameter	Performance	Limits	
Power Rating per Element	0.125W	@ 70°C	
Temperature Range	-55° to +125°C	Derating linearly from 70°C	
Resistance Range	33Ω to $1M\Omega$	E - 24 series	
Resistance Tolerance	± 2% (G)		
Temperature Coefficient	± 100 ppm/°C	$50\Omega \ge 2.2M\Omega$	
	± 250ppm/°C	$<$ 50 Ω – 2.2M Ω	
Max Working Voltage	100V		
Max Overload Voltage	200V		

ORDERING INFORMATION

9	E	103	G
N° Pins	Туре	Value	Tolerance
5 to 13	M = Isolated E = Common	3 digit code : Last digit is decade multiplier. First two digits are first digits of value.	2%



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SPECIFICATION

Short Term Overload $\Delta R/R \pm (1\% + 0.05\Omega)$

After application of 21/2 x rated voltage, or the maximum overload voltage, whichever smaller, for a period of 5

secs. Resistance change to be within specification, with no evidence of arcing, burning or charring.

Vibration Δ R/R \pm (0.5% + 0.5 Ω)

Resistors are to be subjected to vibration of amplitude 0.8mm for 2 hours in each of three mutually

perpendicular directions. The vibration frequency shall be swept from 10 to 55 to 10Hz in 1 minute.

Resistance change to be within specification with no evidence of damage.

Dielectric Strength Components shall withstand twice their rated voltage for 1 minute applied between termination and substrate. No

evidence of arcing, burning or charring.

Solderability $\Delta R/R \pm (1\% + 0.05\Omega)$

After dipping at 260°C ± 5°C for 10 seconds, resistance change to be within specification, with no evidence of

arcing, burning or charring. Terminations shall maintain a minimum of 75% coverage following the procedures of

MIL-STD-202E.

Load Life $\Delta R/R \pm (2\% + 0.05\Omega)$

After 1000 hours application of the rated voltage with a duty cycle of 11/2 hours ON and 1/2 hour OFF, at

70°C. Resistance change to be within specification, with no evidence of arcing, burning or charring.

Moisture Load $\Delta R/R \pm (2\% + 0.05\Omega)$

After 1000 hours application of the rated voltage with a duty cycle of 11/2 hours ON and 1/2 hour OFF, at

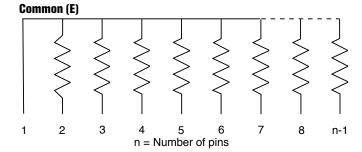
 40°C and 90-95% RH. Resistance change to be within specification, with no evidence of arcing, burning

or charring.

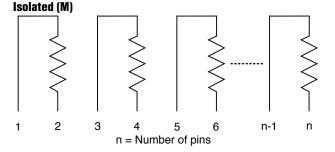
Voltage Coefficient $\Delta R/R < 100$ ppm/V

Flammability Product is conformally coated with epoxy resin conforming to UL94V-0.

SIL PIN-OUTS



Common parts are characterised by having a number of resistive elements, all of the same nominal value. All elements are connected to pin 1.



Isolated parts are characterised by having a number of resistive elements, all of the same nominal value. All elements are independent.