

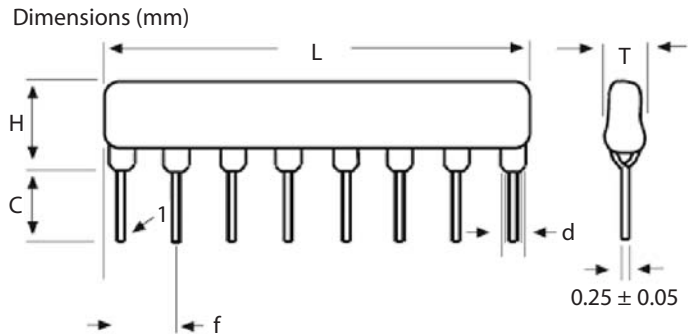
SIP Resistor Networks Type RNL Series

△ Features

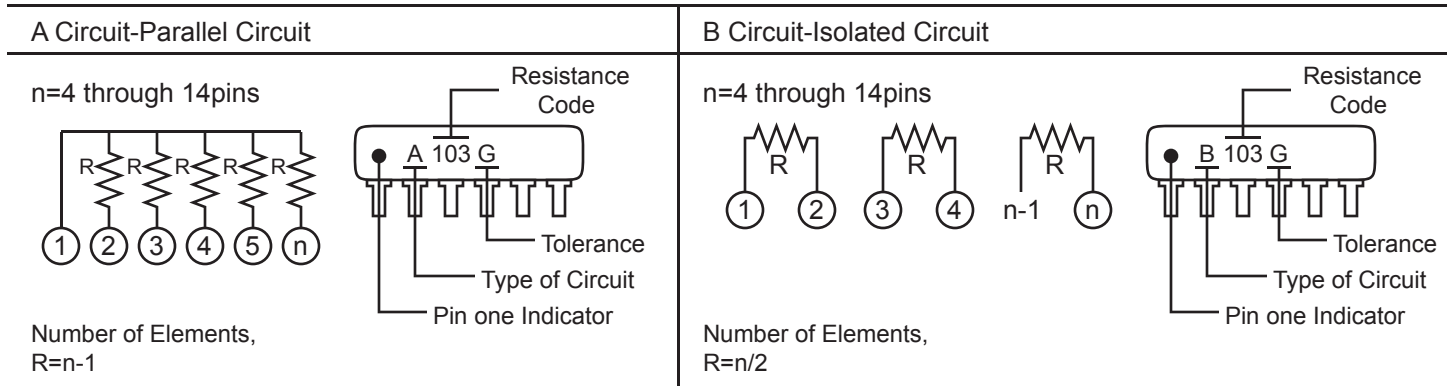
- Thick film resistor network with metal glaze on ceramic substrates
- Miniature, High Density Packaging
- Combinations of Different Ohmic value are available
- High reliability with RUO2 Paste

△ Applications

- Control circuits of V.T.R. Computer, Air Conditioners, TVs, medical and telecom equipment



△ Type of Circuits

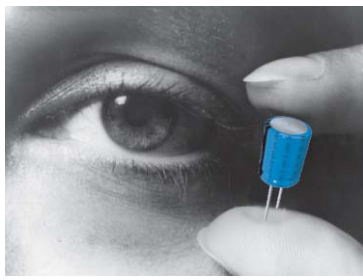


△ Dimensions (mm)

Type	L (Max)	H (Max)		T (Max)	C +0.3 -0.2	d ± 0.05	f ± 0.2
		A Circuit	B Circuit				
4 pin	10.2						
5 pin	12.7						
6 pin	15.3						
7 pin	17.8						
8 pin	20.4	5.08	7.5	2.5	2.8	0.5	2.54
9 pin	22.9						
10 pin	25.4						
11 pin	28.0						
12 pin	30.5						
13 pin	33.1						
14 pin	35.6						

△ Specifications

Operating Temp. Range	-55 °C ~ + 125 °C		Wattage/Element	RA		RB
T.C.R.	±100PPM 50 ohm ~ 2.2M ohm	±250PPM < 50 ohm or 2.2M ohm		B Style	Others	All Styles
Rating Ambient Temp.	+ 70 °C		0.2W	0.125W	0.25W	
Resistance Range	R style	Others	100V		200V	
(E-12 Series)	100Ω - 10K	10Ω - 4.7MΩ	F=±1%, G=±2%, J=±5%			



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Δ Characteristics

Item	Test Methods	Specifications
Resistance Temperature Characteristic	-55 °C ~ + 125 °C	± 100ppm/ °C for 50ohm ~ 2.2M ± 250ppm/ °C for < 50 ohm 2.2M
Temperature Cycling	-55 °C ~ + 125 °C, for 5 cycle	Δ R ±(0.5 % + 0.05Ω)
Short-Time Overload	Rated Voltage x 2.5 for 5 sec.	Δ R ±(0.5 % + 0.05Ω)
Resistance to Solering Heat	350 °C for 3 sec.	Δ R ±(0.5 % + 0.05Ω)
Insulation Resistance	100V for 1 minute	Δ 10,000 Megohm Min.
Terminal Strength	Tensile: 1Kg, 30 sec. Bending: 400q, 2 Times	Δ R ±(0.25 % + 0.05Ω)
Thermal Shock	Load V, Room Temp. 30 min. Unload, -55 °C, 15 min. Over 2 hrs in room temp.	Δ R ±(0.5 % + 0.05Ω)
Solderbility	230 °C ±5 °C, 3 sec.	Covering 95%
Moisture Load Life	40 °C, 90-95% RH rated Voltage for 1000 hours	Δ R ±(2% + 0.05Ω)
Load Life	70 °C at Rated Voltage for 1000 hours	Δ R ±(2% + 0.05Ω)

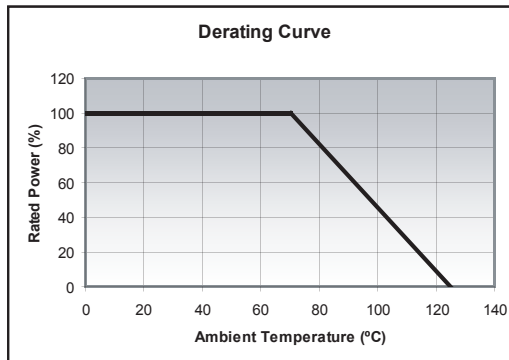
Fixed Component Resistors

Δ Standard Resistance (ohm) E-12 Series

10	12	15	18	22	27	33	39	47	56	68	82
100	120	150	180	220	270	330	390	470	560	680	820
1K	1.2K	1.5K	1.8K	2.2K	2.7K	3.3K	3.9K	4.7K	5.6K	6.8K	8.2K
10K	12K	15K	18K	22K	27K	33K	39K	47K	56K	68K	82K
100K	120K	150K	180K	220K	270K	330K	390K	470K	560K	680K	820K
1M	1.2M	1.5M	1.8M	2.2M							

Δ Dual Terminators (R1/R2) (ohm)

160/240	330/390
180/390	330/470
220/270	1.5K/3.3K
220/330	3.0K/6.2K



Δ How to Order

