

## Resistor Networks

### Series RN

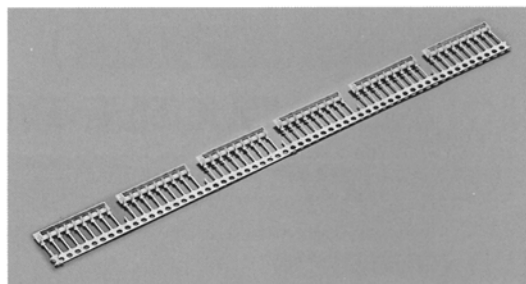
#### SIL TYPE (SINGLE IN LINE)

1/8W

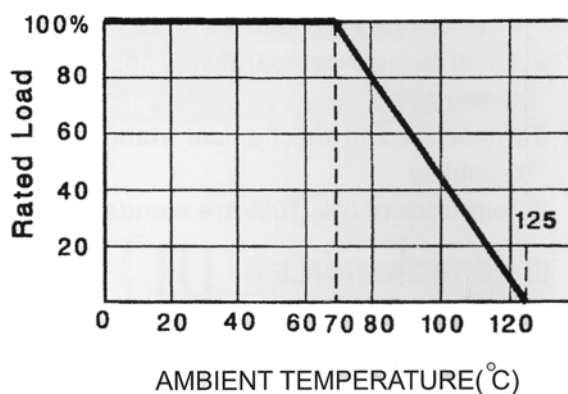
FROM 4 PINS TO 14 PINS

#### FEATURES

- ◆ Available in 4 to 14 pin packages for design flexibility.
- ◆ Low profile is compatible with DIPs.
- ◆ High temperature solder ensures compatibility with all popular board soldering techniques, including vapor phase.
- ◆ High purity alumina substrate for superior heat dissipation.
- ◆ Unique lead attachment for product reliability and strength.
- ◆ Gold and black epoxy provides excellent marking contrast.
- ◆ Laser marking for permanent identification.
- ◆ Zero Ohm jumper is available.



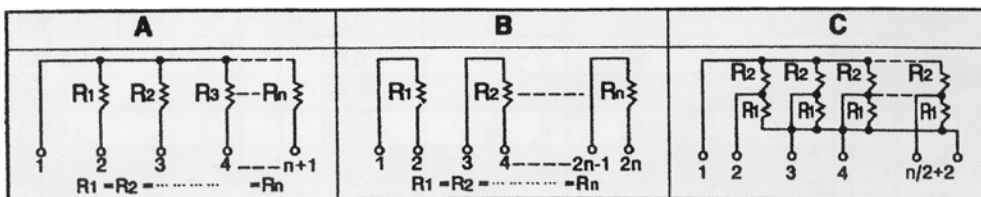
#### POWER DEATING CHARACTERISTICS



#### PERFORMANCE CHARACTERISTICS

Temperature Range:	-55°C To +125°C	
Resistance Range:	Standard	Optional
	10Ω To 1M	*Special Value on request
Temperature Coefficient: $\pm 100\text{ppm}/^\circ\text{C}$ ( $\pm 250\text{ppm}/^\circ\text{C}$ for $<50\Omega$ or $>2.2\text{M}\Omega$ )		
Power:	AT 70°C, A&B circuit 0.20W per resistor, Other circuits 0.125W	
Maximum Working Voltage	100Vdc	
Dielectric Voltage:	200Vrms.	
Resistance Tolerance:	G = $\pm 2\%$ , J = $\pm 5\%$	

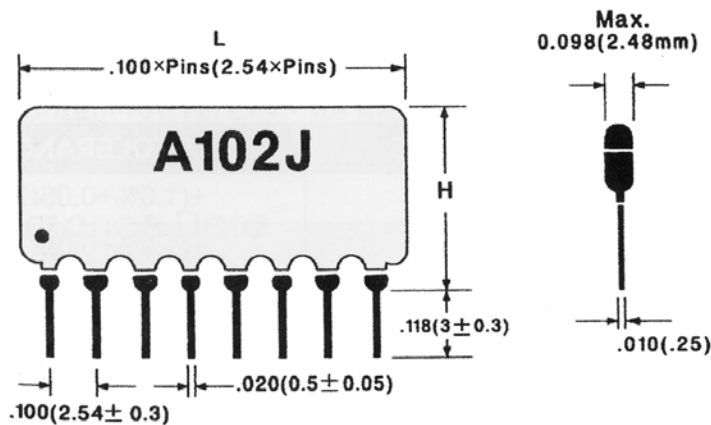
#### SCHEMATIC (Special Customer Design is Acceptable)



## ENVIRONMENTAL CHARACTERISTICS

Items Accordance with MIL-R-83401	Specification
Insulation Resistance (200Vdc Applied)	$10^4 \text{ M}\Omega$ or Greater
Thermal Shock ( $-55^\circ\text{C}$ to $+125^\circ\text{C}$ , 5 Cycles)	$\Delta R/R: \pm(0.5\% + 0.1\Omega)$
Short Time Overload (2.5 x Rated Voltage, 5 Sec.)	$\Delta R/R: \pm(0.5\% + 0.1\Omega)$
Resistance to Soldering Heat ( $+260^\circ\text{C} \pm 5^\circ\text{C}$ , 10 Sec.)	$\Delta R/R: \pm(0.5\% + 0.1\Omega)$
Heat Shock ( $+25^\circ\text{C}$ to $+125^\circ\text{C}$ , 5 Cycles)	$\Delta R/R: \pm(0.5\% + 0.1\Omega)$
Moisture Resistance, Constant State ( $40^\circ\text{C}$ , 95% R.H. 1000Hrs.)	$\Delta R/R: \pm(1\% + 0.1\Omega)$
High Temperature Exposure ( $125^\circ\text{C}$ , 100Hrs.)	$\Delta R/R: \pm(1\% + 0.1\Omega)$
Moisture Load Life (1,000Hrs. $40^\circ\text{C}$ , 95% R.H. Rated Voltage Cycling)	$\Delta R/R: \pm(3\% + 0.1\Omega)$
Load Life (1,000Hrs., Rated Voltage Cycling at $70^\circ\text{C}$ )	$\Delta R/R: \pm(3\% + 0.1\Omega)$
Lead Pull Strength (1kg, 10 Sec.)	$\Delta R/R: \pm(0.5\% + 0.1\Omega)$
Temperature Coefficient ( $-55^\circ\text{C}$ to $125^\circ\text{C}$ )	$\pm 100\text{ppm}/^\circ\text{C}$ $\pm 250\text{ppm}/^\circ\text{C}$ for $<50\Omega$ or $>2.2\text{M}\Omega$
Solderability ( $230^\circ\text{C}$ for 5 Sec.)	95% min. Coverage

## DIMENSIONS



	No. Pins	Dimensions	
		mm	in
L	4	10.2	0.4
	5	12.7	0.5
	6	15.3	0.6
	7	17.8	0.7
	8	20.4	0.8
	9	22.9	0.9
	10	25.4	1.0
	11	28.0	1.1
	12	30.5	1.2
	13	33.1	1.3
	14	35.8	1.4

## HOW TO ORDER

