

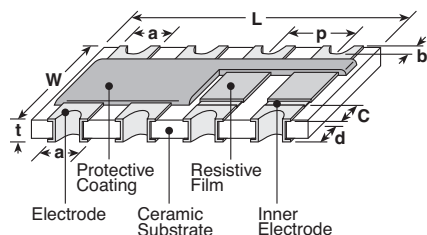
concave termination with square corners resistor array



features

- Manufactured to type RK73 standards
- Less board space than individual chips
- Isolated resistor elements
- Marking: Marked with resistance value
1E, no marking
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified: CN1J4 only

dimensions and construction



Size Code	Dimensions inches (mm)								
	L	W	C	d	t	a (top)	a (bot.)	b	p (ref.)
1E2	.039±.004 (1.0±0.1)	.039±.004 (1.0±0.1)	.008±.004 (0.2±0.1)	.010±.004 (0.25±0.1)	.014±.004 (0.35±0.1)	.012±.004 (0.3±0.1)	.012±.006 (0.3±0.1)	.003±.002 (0.07±0.05)	.020 (0.5)
1E4	.079±.004 (2.0±0.1)								
1J2	.063±.008 (1.6±0.2)	.063±.008 (1.6±0.2)	.012±.008 (0.3±0.2)	.016±.004 (0.4±0.1)		.020±.004 (0.5±0.1)	.016±.006 (0.4±0.15)		.031 (0.8)
1J4	.126±.008 (3.2±0.2)								
1J8	.252±.008 (6.4±0.2)								
2A2	0.1±.008 (2.54±0.2)	.079±.008 (2.0±0.2)	.016±.008 (0.4±0.2)		.024±.004 (0.6±0.1)			.006±.004 (0.15±0.1)	
2A4	0.2±.008 (5.08±0.2)								
2A8	0.4±.008 (10.16±0.2)								
2B2	0.1±.008 (2.54±0.2)	.126±.008 (3.2±0.2)	.020±.012 (0.5±0.3)	.022±.004 (0.55±0.1)		.031±.004 (0.8±0.1)	.030±.006 (0.75±0.15)		.050 (1.27)
2B4	0.2±.008 (5.08±0.2)								
2B8	0.4±.008 (10.16±0.2)								

ordering information

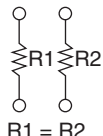
New Part #	CN	1J	4	T	TD	101	J
Type		Size	Elements	Termination Material	Packaging	Nominal Resistance	Tolerance
		1E 1J 2A 2B	2 4 8	T: Sn (Other termination styles may be available, please contact factory for options)	TE: 7" embossed plastic TD: 7" paper tape TED: 10" embossed plastic TDD: 10" paper tape	2 significant figures + 1 multiplier for ±2 & ±5% 3 significant figures + 1 multiplier for ±1%	F: ±1% G: ±2% J: ±5%

For further information on packaging, please refer to Appendix A.

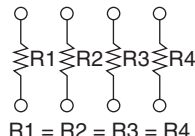
concave termination with square corners resistor array

circuit schematic

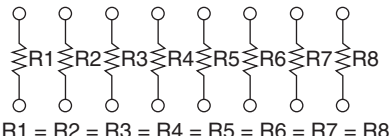
CN1E2, CN1J2,
CN2A2, CN2B2



CN1E4, CN1J4,
CN2A4, CN2B4



CN1J8, CN2A8, CN2B8



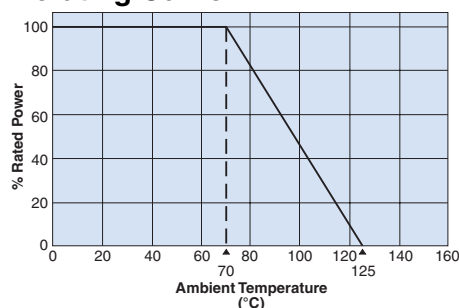
applications and ratings

Part Designation	Power Rating @ 70°C (Per Element)	T.C.R. (ppm/°C) Max.	Resistance Range (Ω)			Absolute Maximum Working Voltage	Maximum Overload Voltage (5 Secs. Max.)	Operating Temperature Range	
			E-24, E-96 (F:±1%)	E-24 (G:±2%)	E-24 (J:±5%)				
CN1E2	1/16W (.063W)	±200: R≥10Ω	—	—	10 - 100k	25V	50V	-55°C to +125°C	
CN1E4			—	—	10 - 1M	50V	100V		
CN1J2			—	—	1 - 1M				
CN1J4	1/16W (.063W)	±200: R≥10Ω	10 - 1M	10 - 1M	10 - 1M	100V	200V		
CN1J8			10 - 1M						
CN2A2			10 - 1M						
CN2A4	1/10W (.100W)	±400: R<10Ω	—			200V	400V		
CN2A8			10 - 1M						
CN2B2			10 - 1M						
CN2B4	1/8W (.125W)	±400: R<10Ω	—						
CN2B8			—						

* Note that network resistors generate higher heat rather than single flat chip resistor under rated power output.

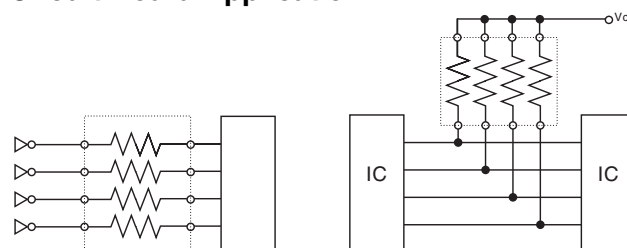
environmental applications

Derating Curve



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

Circuit Board Application



Performance Characteristics

Parameter	Requirement Δ R ±%		Test Method
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/-55°C, +25°C/+125°C
Overload (Short time)	±2.0%	±0.5%	Rated voltage x 2.5 for 5 seconds
Resistance to Solder Heat	±1.0%	±0.25%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±1.0%	±0.5%	-55°C (30 minutes), +125°C (30 minutes), 5 cycles
Moisture Resistance	±5.0%	±1.0%	40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±5.0%	±0.5%	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	±1.0%	±0.2%	+125°C, 1000 hours

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