

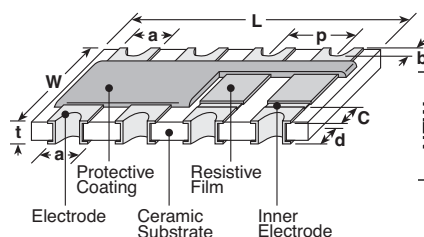
## concave termination with square corners resistor array



### 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. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC

### dimensions and construction



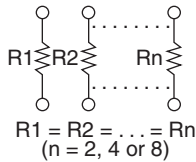
NEW	Size Code	Dimensions inches (mm)								
		L	W	C	d	t	a (top)	a (bot.)	b	p (ref.)
	1E2	.039±.004 (1.0±0.1)	.039±.004 (1.0±0.1)	.008±.004 (0.2±0.1)	.010±.004 (0.25±0.1)	.014±.004 (0.35±0.1)	.012±.004 (0.3±0.1)	.012±.006 (0.3±0.1)	.003±.002 (0.07±0.05)	.020 (0.5)
	1E4	.079±.004 (2.0±0.1)								
	1J2	.063±.008 (1.6±0.2)	.063±.008 (1.6±0.2)	.012±.008 (0.3±0.2)	.016±.004 (0.4±0.1)					
	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
		NEW 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.

### circuit schematic

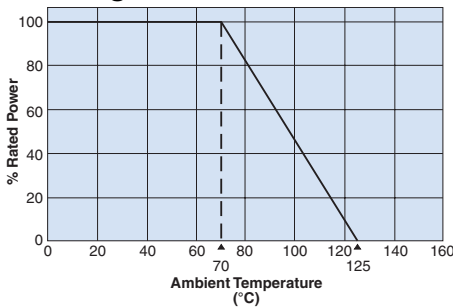


### applications and ratings

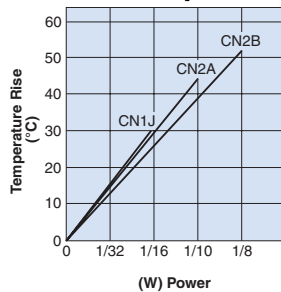
NEW	Part Designation	Power Rating @ 70°C (Per Element)	T.C.R. (ppm/°C) Max.	Resistance Range (Ω)			Absolute Maximum Working Voltage	Maximum Overload Voltage (5 Secs. Max.)	Operating Temperature Range		
				E-24, E-96 (F:±1%)	E-24 (G:±2%)	E-24 (J:±5%)					
	CN1E2	1/16W (.063W)	±200: R≥10Ω	—	—	10 - 100k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

### environmental applications

#### Derating Curve



#### Surface Temperature Rise



### 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
Low Temperature Operation	±1.0%	±0.2%	-55°C, 1 hour
High Temperature Exposure	±1.0%	±0.2%	+125°C, 100 hours