

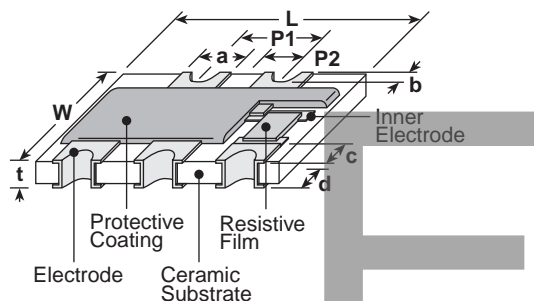
## bussed concave termination square corner resistor array



### features

- Manufactured to type RK73 standards
- Less board space than individual chips
- Four or eight bussed resistor elements included in one array, concave terminations
- 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.

### dimensions and construction



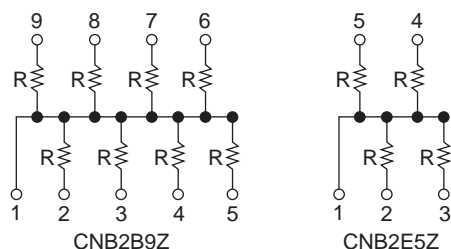
Size Code	Dimensions inches (mm)									
	L	W	t	P1	P2	a (top)	a (bot.)	b (ref.)	c (ref.)	d
2B9Z	.252±.008 (6.4±0.2)	.126±.008 (3.2±0.2)	.024±.004 (0.6±0.1)	.051±.004 (1.3±0.1)	.026±.004 (0.65±0.1)	.024±.004 (0.6±0.1)	.024±.004 (0.6±0.1)	.006 (0.15)	.018±.008 (0.45±0.2)	.024±.006 (0.6±0.15)
2E5Z	.126±.008 (3.2±0.2)	.098±.008 (2.5±0.2)	.024±.004 (0.6±0.1)	.039±.004 (1.0±0.1)	.020±.004 (0.50±0.1)	.022±.004 (0.55±0.1)	.022±.004 (0.55±0.1)	.006 (0.15)	.012±.006 (0.3±0.15)	.020±.006 (0.5±0.15)

### ordering information

CNB	2B	9	Z	T	TE	103	J
Type	Size	Elements	Circuit Symbol	Termination Material	Packaging	Nominal Resistance	Tolerance
	2B 2E	5 9	Z: A parallel circuit with staggered terminals and a common electrode on #1 terminal	T: Sn (Other termination styles may be available, please contact factory for options)	TE: 7" embossed plastic	2 significant figures + 1 multiplier	J: ±5%

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

## circuit schematics



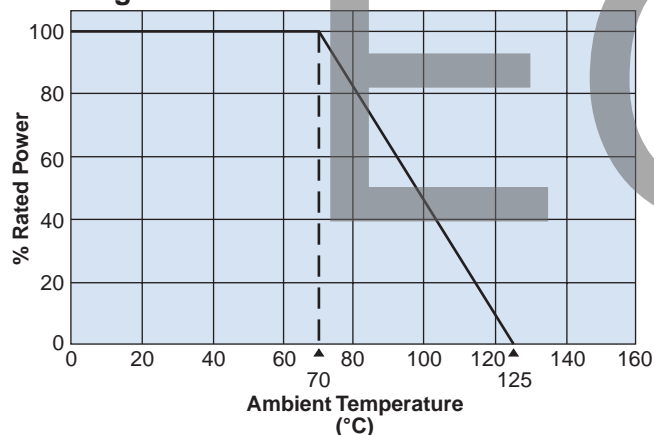
## applications and ratings

Part Designation	Power Rating @ 70°C (Per Element)	Rated Ambient Temperature	T.C.R. (ppm/°C) Max.	Resistance Range E-3*	Resistance Tolerance	Absolute Maximum Working Voltage	Maximum Overload Voltage (5 Secs. Max.)	Operating Temperature Range
CNB2B9Z	1/16W (.063W)	±70°C	±200	1kΩ - 470kΩ	J: ±5%	50V	100V	-55°C to +125°C
CNB2E5Z								

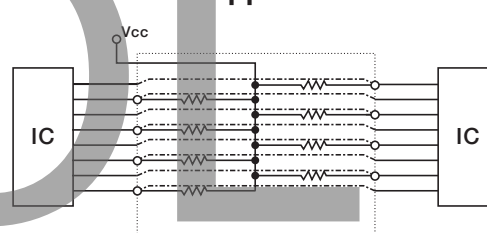
\* E-3 significant figures (per decade) are 1.0, 2.2 and 4.7.

## environmental applications

### Derating Curve



### Circuit Board Application



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.

## Performance Characteristics

Parameter	Requirement $\Delta R \pm(\%+0.1\Omega)$	Limit	Typical	Test Method
Resistance	Within regulated 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%	±0.1%	—	-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