

## bussed square corner resistor array



### features

- Manufactured to type RK73 standards
- Concave or convex terminations
- Less board space than individual chips
- Eight bussed resistor elements included in one array
- Marking: Marked with resistance value
- 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	Figure No.	Dimensions inches (mm)										
		L	W	C	d	e	t	a (top)	a2	a (bot.)	b	p
1J10VK	2	.126±.004 (3.2±0.1)	.063±.004 (1.6±0.1)	.012±.008 (0.3±0.2)	.012±.004 (0.3±0.1)	—	.020±.004 (0.5±0.1)	.016±.004 (0.4±0.1)	—	.012 (0.3)	—	.025 (0.64)
1J10K	2	.126±.004 (3.2±0.1)	.063±.004 (1.6±0.1)	.012±.008 (0.3±0.2)	.010±.004 (0.25±0.1)	—	.020±.004 (0.5±0.1)	.016±.004 (0.4±0.1)	.022±.004 (0.55±0.1)	.012±.008 (0.3±0.2)	—	.025 (0.64)
1J10Y	1	.126±.006 (3.2±0.15)	.063±.008 (1.6±0.2)	.014±.004 (0.35±0.1)	.014±.004 (0.35±0.1)	.016±.006 (0.4±0.15)	.022±.004 (0.55±0.1)	.013±.006 (0.33±0.15)	—	.012±.004 (0.3±0.1)	.004 (0.1)	.031 (0.8)
2A10Y		.157±.008 (4.0±0.2)	.083±.008 (2.1±0.2)	.010±.008 (0.25±0.2)	.016±.008 (0.4±0.2)	.020±.008 (0.5±0.2)	.024±.004 (0.6±0.1)	.020±.008 (0.5±0.2)	—	.016±.006 (0.4±0.15)	.006±.004 (0.15±0.1)	.031 (0.8)
2B10V	3	.252±.008 (6.4±0.2)	.122±.008 (3.1±0.2)	.014±.006 (0.35±0.15)	.022±.006 (0.55±0.15)	—	.024±.004 (0.6±0.1)	.024±.004 (0.6±0.1)	—	.024±.006 (0.6±0.15)	.006±.004 (0.15±0.1)	0.05 (1.27)
2B10												



### ordering information

Convex:	CND	1J	10	V	K	T	TD	103	J
Type		Size	Elements	Circuit Symbol	Terminal Symbol	Termination Material	Packaging	Nominal Resistance	Tolerance
		1J	10	V: Reverse common electrode Blank: Standard	K: Convex type	T: Sn (Other termination styles may be available, please contact factory for options)	TD: 7" paper tape	2 significant figures + 1 multiplier	J: ±5%

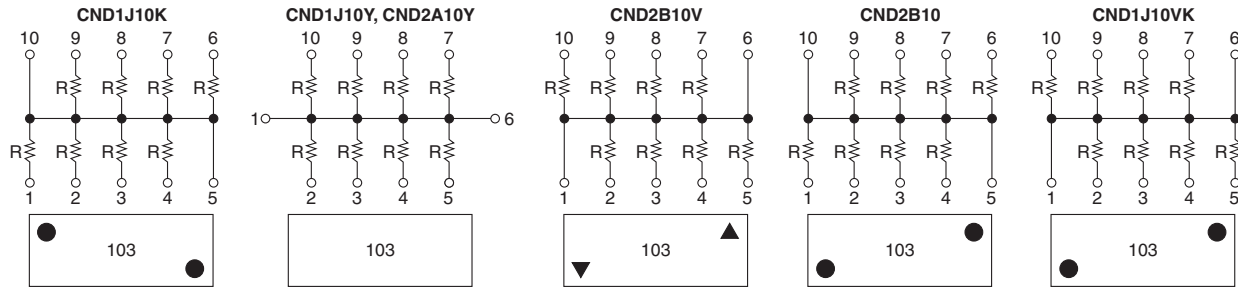
Concave:	CND	2B	10	V	T	TE	103	J
Type		Size	Elements	Circuit Symbol	Termination Material	Packaging	Nominal Resistance	Tolerance
		1J 2A 2B	10	V: Reverse common electrode Y: Side common electrode Blank: Standard	T: Sn (Other termination styles may be available, please contact factory for options)	TD: 7" paper tape TE: 7" embossed plastic	2 significant figures + 1 multiplier	J: ±5%

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

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

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### circuit schematics and markings



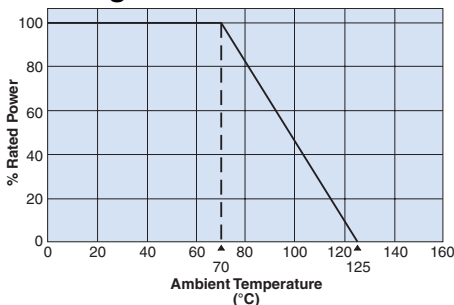
### applications and ratings

Part Designation	Power Rating @ 70°C (Per Element)	T.C.R. (ppm/°C) Max.	Resistance Range E-12	Resistance Tolerance	Absolute Maximum Working Voltage	Maximum Overload Voltage (5 Secs. Max.)	Rated Ambient Temperature	Operating Temperature Range
CND1J10VK	.031	±200	47Ω - 39kΩ	J: ±5%	25V	50V	+70°C	-55°C to +125°C
CND1J10K			22Ω - 39kΩ					
CND1J10Y	.05		100Ω - 100kΩ					
CND2A10Y	.063							
CND2B10V								
CND2B10								

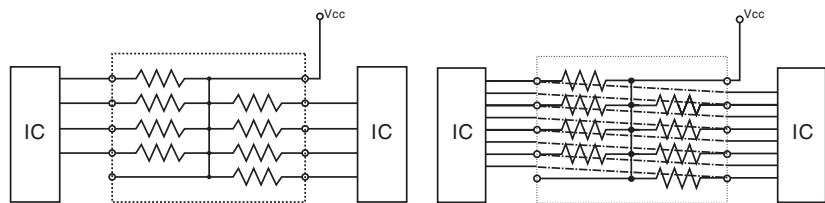
\* Note that network resistors generate higher heat rather than single flat chip resistors even under rated power output

### 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 Δ R ±1%		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%	Convex: ±0.2% Concave: ±0.25%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±1.0%	Convex: ±0.1% Concave: ±0.25%	-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%	Convex: ±0.5% Concave: ±1%	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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