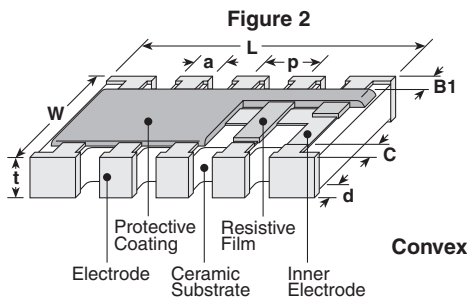
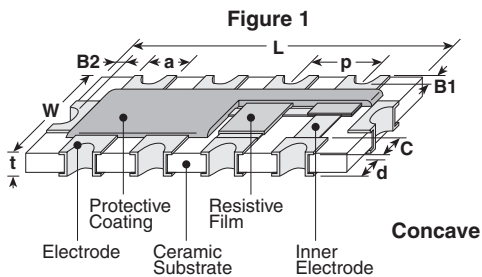


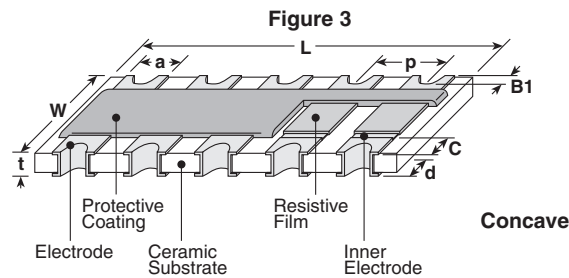
### features

- 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 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



Size Code	Figure No.	Dimensions inches (mm)								
		L	W	C	d	t	a	B1	B2	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)	—	.010±.004 (0.25±0.1)	.020±.004 (0.5±0.1)	.016±.004 (0.4±0.1)	.012±.008 (0.3±0.2)	—	.025 (0.64)
1J10Y	1	.157±.008 (4.0±0.2)	.083±.008 (2.1±0.2)	—	.014±.004 (0.35±0.1)	.022±.004 (0.55±0.1)	.013±.006 (0.33±0.15)	.008±.004 (0.20±0.1)	.008±.004 (0.2±0.1)	.031 (0.8)
2A10Y					.016±.008 (0.4±0.2)	.024±.004 (0.6±0.1)	.020±.008 (0.5±0.2)	.010±.008 (0.25±0.2)	.004±.008 (0.1±0.2)	
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 (0.6)	.006 (0.1)	—	0.05 (1.27)
2B10										



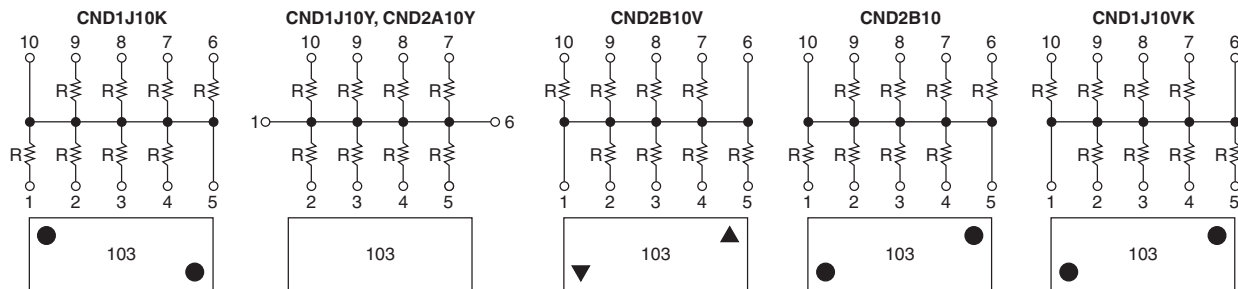
### ordering information

New Part #	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		T: Sn (Other termination styles may be available, please contact factory for options)	TD: 7" paper tape	2 significant figures + 1 multiplier	J: ±5%

New Part #	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 electrode type	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.

## circuit schematics and markings

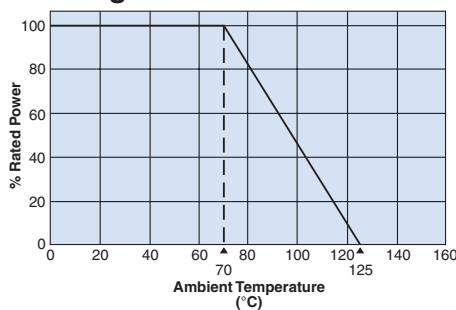


## applications and ratings

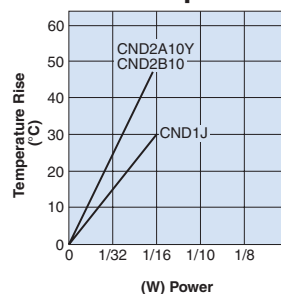
Part Designation	Power Rating @ 70°C (Per Element)	T.C.R. (ppm/°C) Max.	Resistance Range E-12	Resistance Tolerance	Absolute Maximum Working Voltage	Maximum Overload Voltage (5 Secs. Max.)	Operating Temperature Range
CND1J10VK	.031	±200	47Ω - 39kΩ	J: ±5%	25V	50V	-55°C to +125°C
CND1J10K	.063		22Ω - 39KΩ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

## environmental applications

### Derating Curve



### Surface Temperature Rise



## Performance Characteristics

Parameter	Maximum Δ R	Test Method
Thermal Shock		MIL-STD-202, Method 107, -55°C to +125°C, 5 cycles
Low Temperature Operation	±(1.0% + 0.1Ω)	MIL-R-55342 π 4.7.4, 1 hour @ -55°C followed by 45 minutes of RCWV*
High Temperature Exposure		MIL-R-55342 π 4.7.6, 100 hours @ 125°C
Short Time Overload	±(2.0% + 0.05Ω)	MIL-R-55342 π 4.7.5, 2.5 x RCWV for 5 seconds
Resistance to Solder Heat		MIL-R-55342 π 4.7.7, 260°C for 10 seconds
Terminal Strength-Push	±(1.0% + 0.1Ω)	1.2 Kg for 1 minute
Terminal Strength-Bend	±(0.5% + 0.05Ω)	5mm deflection in either direction for 10 seconds
Moisture Resistance		MIL-STD-202, Method 103, 40°C, 90 - 95% RH, 1000 hours
Life	±5.0%	MIL-STD-202, Method 108, 70°C, 1000 hours @ RCWV, 1.5 hr ON, 0.5 hr OFF
Pulse		2.5 x RCWV, not exceeding max. overload voltage, 1 sec. ON, 25 sec. OFF, 10,000 cycles
Temperature Cycling	±1.0%	30 min. @ -55°C, 15 min. @ +25°C, 30 min. @ +125°C, 15 min. @ +25°C, 5 cycles
Terminal Adhesion	15 Grams Minimum	Axial pull, one terminal at a time
Dielectric Withstanding Voltage	400V	1 minute minimum, MIL-STD-202, Method 301
Insulation Resistance	1,000 MΩ Minimum	—

\* RCWV = Rated Continuous Working Voltage.

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

2/15/07