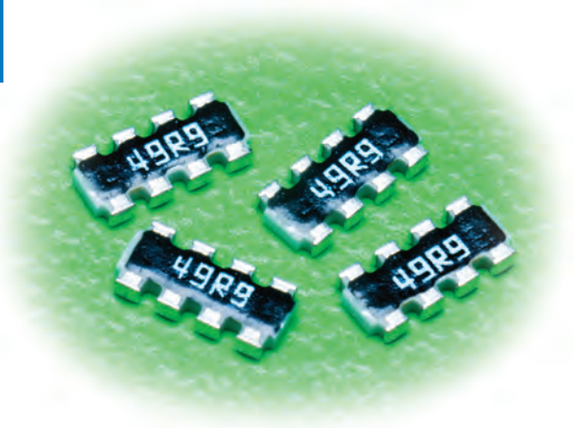
KOA SPEER ELECTRONICS, INC.

CN__A

convex termination with scalloped corners resistor array

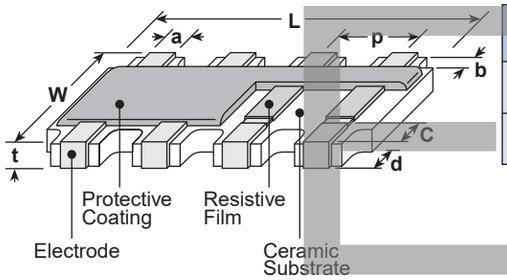
EU RoHS COMPLIANT



features

- Manufactured to type RK73 standards
- Less board space than individual chips
- Isolated resistor elements
- Convex terminations with scalloped corners
- 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: CN1J4A only

dimensions and construction

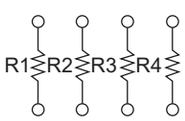


Size Code	Dimensions inches (mm)							
	L	W	C	d	t	a	b	p (ref.)
1J4A	.126±.006 (3.2±0.15)	.063±.006 (1.6±0.15)	.012±.008 (0.3±0.2)	.010±.004 (0.25±0.1)	.020±.004 (0.5±0.1)	.020±.006 (0.5±0.15)	.012±.004 (0.3±0.1)	.031 (0.8)
2B4A	0.2±.008 (5.1±0.2)	.122±.008 (3.1±0.2)	.020±.008 (0.5±0.2)	.014±.006 (0.35±0.15)	.022±.004 (0.55±0.1)	.031±.008 (0.8±0.2)	.018±.004 (0.45±0.1)	.050 (1.27)

ordering information

CN	1J	4	A	T	TD	101	J
Type	Size	Elements	Terminal Convex	Termination Material	Packaging	Nominal Resistance	Tolerance
	1J 2B			T: Sn (Other termination styles maybe 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% J: ±5%

circuit schematic



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

applications and ratings

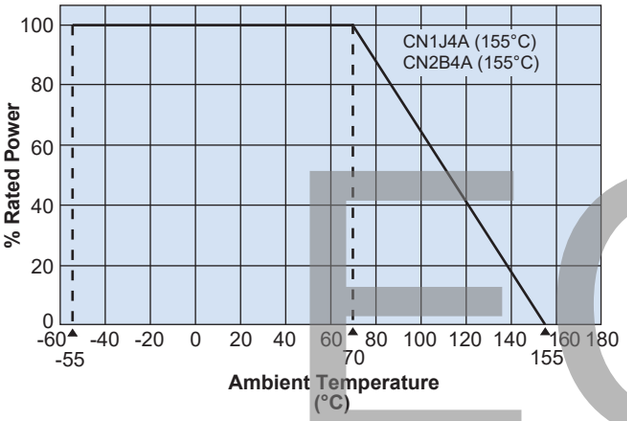
Part Designation	Power Rating @ 70°C (Per Element)	Rated Ambient Temp.	Rated Terminal Temp.	T.C.R. (ppm/°C) Max.		Resistance Range		Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
				(F±1%)	(J±5%)	E-24, E-96 (F±1%)	E-24 (J±5%)			
CN1J4A	1/16W (.063W)	70°C	+125°C	±100:R≥10Ω	±200:R≥10Ω ±400:R<10Ω	10 - 100kΩ	1Ω - 1MΩ	50V	100V	-55°C to +155°C
CN2B4A	1/8W (.125W)			—		—	10Ω - 1MΩ	200V	400V	

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

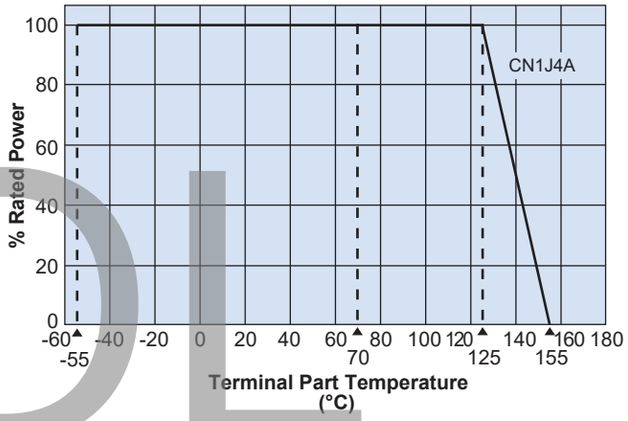
If any questions should arise whether to use the “Rated Ambient Temperature” or the “Rated Terminal Part Temperature,” please give priority to the “Rated Terminal Part Temperature.” Prior to use and for more details refer to “Introduction of the derating curves on the terminal part temperature” in the beginning of the catalog.

environmental applications

Derating Curve



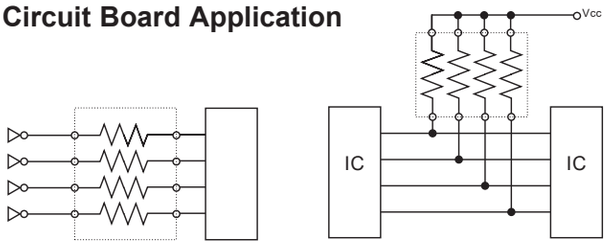
For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.



For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve.

Please refer to “Introduction of the derating curve based on the terminal part temperature” in the beginning of our catalog before use.

Circuit Board Application



Performance Characteristics

Parameter	Requirement Δ R ±(%+0.1Ω) Limit	Typical	Test Method
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%	±0.25%	Rated voltage x 2.5 for 5 seconds
Resistance to Solder Heat	±1.0%	±0.75%	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%	±0.25%	+155°C, 1000 hours

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