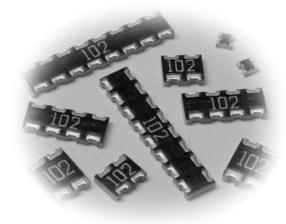




concave termination with square corners resistor array

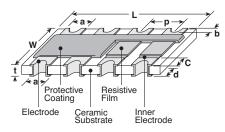


features



- Manufactured to type RK73 standards
- · Less board space than individual chips
- Isolated resistor elements
- 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: CN1J4 only

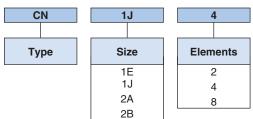
dimensions and construction



Size	Dimensions inches (mm)								
Code	L	W	С	d	t	a (top)	a (bot.)	b	p (ref.)
1E2 (0402x2)	.039±.004 (1.0±0.1)	.039±.004	.008±.004		.014±.004 (0.35±0.1)	.012±.004			.020
1E4 (0402x4)	.079±.004 (2.0±0.1)	(1.0±0.1)	(0.2±0.1)	(0.25±0.1)	.018±.004 (0.45±0.1)	(0.3±0.1)	(0.3±0.1)	(0.07±0.05)	(0.5)
1J2 (0603x2)	.063±.008 (1.6±0.2)								
1J4 (0603x4)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.012±.008 (0.3±0.2)		•	.020±.004 (0.5±0.1)	.016±.006 (0.4±0.15)		.031 (0.8)
1J8 (0603x8)	.252±.008 (6.4±0.2)								
2A2 (0805x2)	0.1±.008 (2.54±0.2)								
2A4 (0805x4)	0.2±.008 (5.08±0.2)		.016±.008 (0.4±0.2)	.022±.004	.024±.004 (0.6±0.1)	.031±.004	.030±.006	.006±.004 (0.15±0.1)	.050
2A8 (0805x8)	0.4±.008 (10.16±0.2)								
2B2 (1206x2)	0.1±.008 (2.54±0.2)			(0.55±0.1)		(0.8±0.1)	(0.75±0.15)		(1.27)
2B4 (1206x4)	0.2±.008 (5.08±0.2)	.126±.008 (3.2±0.2)	.020±.012 (0.5±0.3)						
2B8 (1206x8)	0.4±.008 (10.16±0.2)								

TD

ordering information



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

Terminat Materia
T: Sn
(1J ~ 2B: Ot
termination s

Termination Material	Packaging
T: Sn (1J ~ 2B: Other termination styles may be available, please contact	TE: 7" embossed plastic TD: 7" paper tape TED: 10" embossed plast TDD: 10" paper tape
factory for options)	

	10		
_			
		ninal tance	
	2 sign figures multip ±2 & s	s + 1 lier for	
	3 sign figures multip for ±1	s + 1 lier	

J
Tolerance
F: ±1%
G:±2%
J: ±5%

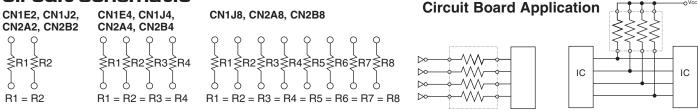
Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.





concave termination with square corners resistor array

circuit schematic



applications and ratings

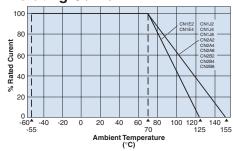
Part Power Ratin @ 70°C		Rated Ambient	Rated Terminal	T.C.R. (ppm/°C) Max.		Resistance Range (Ω)			Absolute Maximum	Maximum Overload
Designation	(Per Element)	Temp.	Part Temp.	F:±1%	J:±5%, G:±2%	E-24, E-96 (F:±1%)	E-24 (G:±2%)	E-24 (J:±5%)	Working Voltage	Voltage (5 Secs. Max.)
CN1E2	1/16W (.063W)							10 - 100k	25V	50V
CN1E4	1/1000 (.00000)]				25 V	30 V
CN1J2				±100:				10 - 1M		
CN1J4	1/16W (.063W)			R≥10Ω	±200:	10 - 1M		1 - 1M	50V	100V
CN1J8				±200:	R≥10Ω					
CN2A2		+70°C		±200. R≥10Ω		10 - 1M				
CN2A4	1/10W (.100W)		+125°C	□ □ ≥ 1022	±400:	TO - TIVI	10 - 1M		100V	200V
CN2A8					R<10Ω			10 - 1M		
CN2B2				±200:]	40 414				
CN2B4	1/8W (.125W)			R≥10Ω		10 - 1M			200V	400V
CN2B8	<u> </u>				1					

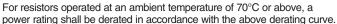
^{*} Note that network resistors generate higher heat rather than single flat chip resistor under rated power output. Operating Temperature Range: -55°C to +125°C (CN1E), -55°C to +155°C

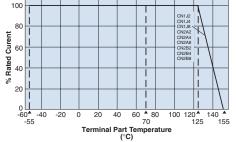
If any questions should arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature," please give priority to the "Rated Terminal Part Temperature." Prior to use and for more details refer to "Introduction of the derating curves on the terminal part temperature" in the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

environmental applications

Derating Curve







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

Performance Characteristics

	Requireme	ent ∆ R ±%				
Parameter	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%	±0.5%	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			
High Temperature Exposure	±1.0%	±0.2%: CN1E2, CN1E4	CN1E2, CN1E4: +125°C, 1000 hours			
Triigit terriperature Exposure	±1.0%	±0.3%: Other	CN1J2, CN1J4J, CN1J8, CN2A2, CN2A4, CN2A8, CN2B2, CN2B4, CN2B8: +155°C, 1000 hours			

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

11/14/17

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KOA Speer:

CN1J4LTD1004F CN2B4LTE1002F CN1J8LTE121J CN1J4LTDD330J CN2A2LTE1270F CN1E4KLTD472J CN1J4LTD64R9F CN2A2LTE510J CN1J4LTD270J CN1J4LTD153J CN2A4LTE510J CN1J4LTD272J CN1J8LTE270J CN1J8LTE272J CN1E4KLTD7R5J CN1J2LTD3322F CN1J8LTE271J CN1J4LTD433J CN2A4LTE751J CN1J4LTD430J CN1J4LTD12R0F CN1J4LTD333J CN1E4KLTD121J CN1J4LTDD103J CN1J4LTD620J CN1J2LTD2000F CN2B4LTE2200F CN2B8LTE272J CN2B4LTE270J CN2B8LTE271J CN2B8LTE270J CN2B4LTE621J CN1J4LTD182J CN1J4LTD181J CN1J4LTD180J CN1J4LTD183J CN1J4LTD184J CN1J4LTD202J CN2B4LTE680J CN1J4LTD200J CN1J4LTD51R1F CN2B8LTE510J CN2B4LTE510J CN1J8LTE561J CN1J8LTE560J CN2A8LTE390J CN2A4LTE390J CN2A4LTE270J CN2A4LTE272J CN1E4KLTD331J CN1E4KLTD330J CN1E4KLTD333J CN2B8LTE151J CN2B4LTE151J CN2B4LTE152J CN2B4LTE121J CN1J2LTD3010F CN1E4KLTD510J CN1J4LTD330J CN1J2LTD330J CN1J2LTD331J CN1J4LTD332J CN1J4LTD331J CN1J4LTD393J CN2A8LTE474J CN2A4LTE470J CN2A4LTE1002F CN1J4LTD240J CN1J2LTD1333F CN2B4LTE204J CN2B4LTE200J CN1J4LTD823J CN1J4LTD821J CN2B8LTE301J CN1J8LTE511J CN1J8LTE512J CN2B4LTE302J CN2A2LTE82R5F CN1E4KLTD201J CN1J2LTD49R9F CN1J4LTD820J CN1J8TTE121J CN2B8TTE270J CN2B4TTE270J CN2B8TTE272J CN2B8TTE271J CN2B4TTE152J CN2B8TTE151J CN2B4TTE151J CN1J8TTE200J CN1J2TTD510J CN1J4TTD510J CN1J4TTD512J CN1J2TTD8060F CN2A4TTE270J CN1J2TTD82R5F CN1J4TTD511J CN2A4TTE272J CN1J4TTD513J CN1J2TTD1333F