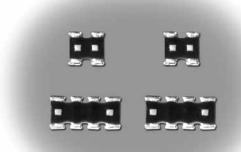




anti sulfuration chip networks (convex termination)

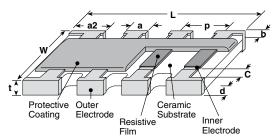


features



- Excellent anti-sulfuration characteristic due to using high sulfuration-proof inner top electrode material
- More advancement in the mounting density than individual chip resistors
- Mounting cost reduction by decreasing the number of parts mounting times
- Easy soldering fillet inspection
- Suitable for an image recognition mounter due to square corner design
- Marking: Black body color
- Products with lead-free termination meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.

dimensions and construction



Type	Dimensions inches (mm)									
Type	L	W	С	d	t	а	a2	b	P*	
CN1E2KRT (0402x2)						.013±.004 (0.33±0.1)		.007±.002 (0.17±0.05)	.026 (0.67)	
CN1E4KRT (0402x4)	.079±.004 (2.0±0.1)					.012±.006 (0.3±0.15)			.020 (0.5)	

^{*} Referential values.

ordering information







K					
	ninal nvex				
K: Convex t with squa	ype ared corners				

RT					
Termination Material					
RT: Sn					

TD					
		_			
Packaging					
Pa	ckaging				

103					
Nominal Resistance					
3 digits					

[J
Г	
	Tolerance
	J: ±5%

applications and ratings

	Part Desigation	Power Rating w/ Element	Resistance Range J: ±5 E24	T.C.R. (×10 ⁻⁶ /K)	Max. Working Voltage	Max. Overload Voltage	Rated Ambient Temperature	Operating Temperature Range	Taping & Q'ty/Reel (pcs)
	CN1E2KRT	0.063	3~1M	±200: R≥10Ω	25V	50V	+70°C	–55°C∼+125°C	10.000
ı	CN1E4KRT	1 0.063	J~11VI	±400: R<10Ω	Z	J 50 V	1 +/0 C	-55 C~+125 C	10,000

Please note that network resistors generate higher heat rather than single flat chip resistor even under rated power output.

Rated voltage = $\sqrt{\text{Power Rating} \times \text{Resistance value}}$ or Max. working voltage, whichever is lower.





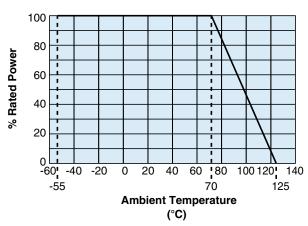
anti sulfuration chip networks (convex termination)

environmental applications

Circuit Construction

$\begin{array}{cccc} \textbf{CN1E2KRT} & \textbf{CN1E4KRT} \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$

Derating Curve

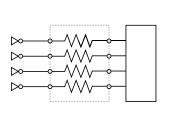


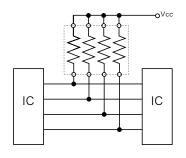
For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

Performance Characteristics

	Performance Rec	µuirements ΔR±%	7-11-11-11-11-11-11-11-11-11-11-11-11-11		
Parameters	Limit	Typical	Test Methods		
Resistance	Within specified tolerance	_	25°C		
T.C.R.	Within specified T.C.R.	_	+25°C/-55°C and +25°C/+125°C		
Overload (Short time)	2	0.25	Rated voltage × 2.5 for 5s		
Resistance to Soldering Heat	1	0.75	260°C±5°C, 10s±1s		
Rapid Change of Temperature	1	0.5	-55°C (30min.)/+125°C (30min.) 5 cycles		
Moisture Resistance	5	1	40°C ±2°C, 90%~95%RH, 1000h 1.5h ON/0.5h OFF cycle		
Endurance at 70°C	5	0.5	70°C±2°C, 1000h 1.5h ON/0.5h OFF cycle		
High Temperature Exposure	1	0.15	+125°C, 1000h		

Circuit Board Application





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