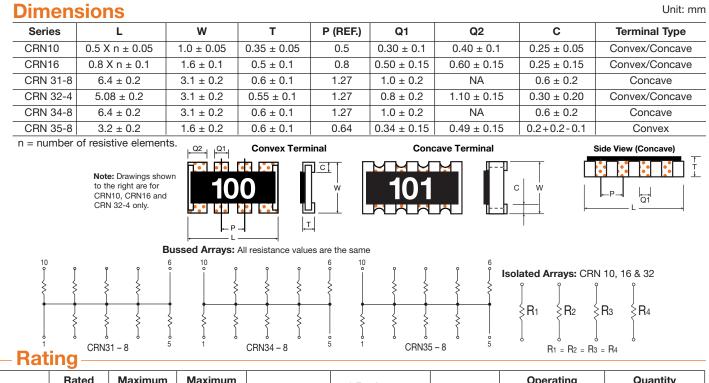
Chip Resistor Arrays

Features

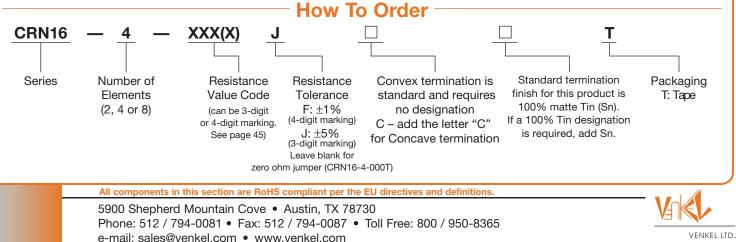
Chip resistor arrays have been designed to fit in wherever greater density is required. Available in banks of 2, 4 or 8 resistors in one package. Suitable for flow and reflow soldering.



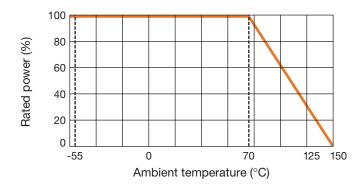
Series	Rated Power at 70°C	Maximum Working Voltage	Maximum Overload Voltage	TCR	* Resistance Range	Tolerance	Operating Temperature Range	Quantity per Reel
*CRN10	.063W	25V	50V	±200PPM/°C	0,10Ω ~ 1MΩ	F	-55°C ~ 150°C	10,000
					0,1Ω ~ 10MΩ	J		
**CRN16	.063W	50V	100V	±200PPM/°C	0,10Ω ~ 1ΜΩ	F	-55°C ~ 150°C	5,000
					0,1Ω ~ 10MΩ	J		
CRN31-8	.063W	100V	200V	±200PPM/°C	22Ω ~ 470K	F, J	-55°C ~ 150°C	4,000
CRN32-4	.125W	200V	400V	±200PPM/°C	0,10Ω ~ 1MΩ	F, J	-55°C ~ 150°C	4,000
CRN34-8	.063W	100V	200V	±200PPM/°C	22Ω ~ 470K	F, J	-55°C ~ 150°C	4,000
CRN35-8	.031W	25V	50V	±250PPM/°C	10Ω ~ 100K	F, J	-55°C ~ 150°C	5,000

* Only available with 2 or 4 resistors. Concave in 4 element only. ** The CRN16 Series is available with 8 resistors in 5% tolerance and Convex style termination only. Minimum order quantities may apply.

NOTE: Values under 10Ω may be available. Please consult your sales representative for availability.



DERATING CURVE



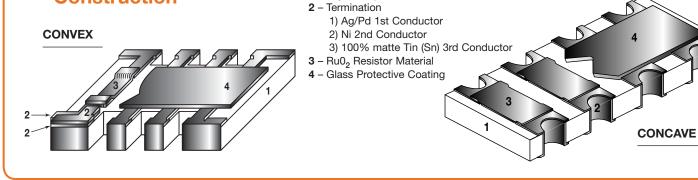
The resistors shall have a power rating based on continuous full-load operation at an ambient temperature of 70°C. For operation at ambient temperature in excess of 70°C, the load shall be derated in accordance with figure of Derating Curve.

Characteristics

Description	Requirements	Test method JIS C 5202		
Resistance Value	Within specified tolerance			
Resistance Temperature Coefficient	See Rating table	Measuring temperature +25°C/ -55°C/ +20°C/ +125°C		
Short time Overload	Within ± (1% +0.05Ω) No major visible damage	2.5 times rated voltage 5 seconds		
Insulation Resistance	At least 1,000 MΩ	CRN10: 50Vdc, CRN16/35: 100Vdc 1 minute CRN31/32: 500Vdc 1 minute		
Terminal Strength	Within \pm (1% +0.05 Ω) No mechanical damage to the resistor body	Install a sample on the board and bend the board 3/45mm for 10 seconds		
Resistance to Vibration	Within \pm (1% +0.05 Ω) No mechanical damage to the resistor body	$10Hz \rightarrow 55Hz \rightarrow 10Hz$ 3 directions (X, Y, Z) 2 hours each Amplitude 1.5mm		
Solder Heat Resistance	Within ± (1% +0.05Ω) No major visible damage	Dip into 260°C solder bath for 10 seconds		
Solderability	At least 95% of the terminal surface must be covered by new solder	After dipping into flux, dip into 235°C solder bath for 2 seconds		
Temperature Cycle	Within ± (1% +0.05Ω) No major visible damage	Cycle between -55°C and +150°C for 5 cycles		
Load Life in Moisture	Within ± (3% +0.1Ω) No major visible damage	Rated voltage 1.5 hours "ON" 0.5 hours "OFF" 40°C, 95% RH 1,000 hours		
Load Life	Within \pm (3% +0.1 Ω) No major visible damage	Rated voltage 1.5 hours "ON" 0.5 hours "OFF" 70°C 1,000 hours		

1 - High Purity Alumina Substrate

Construction



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