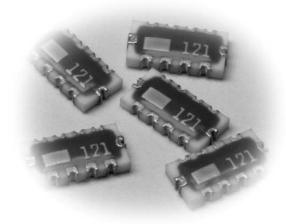




chip resistor array

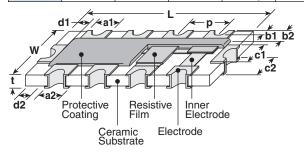


features

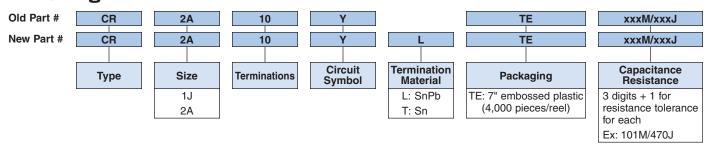
- Exceptional filtering capabilities and superior characteristics
- Filter out high frequency content of digital signals
- Marking: Yellow three-digit on green protective coat

dimensions and construction

	Dimensions inches (mm)											
Size	L	W	t	a1	a2	b1	b2	c1	c2	d1	d2	р
1J			.026±.004 (0.65±0.1)									
2A	.157±.008 (4.0±0.2)		.028±.004 (0.7±0.1)									



ordering information



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

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

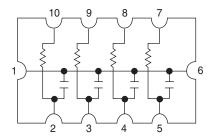
11/01/03





chip resistor array

circuit schematic



applications and ratings (CR1J)

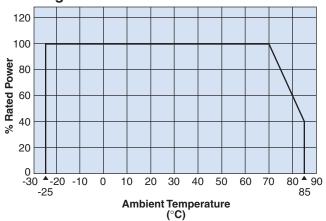
Part Designation	Capacitor Item	Capacitor Rating	Resistor Item	Resistor Rating
	Voltage Rating	12V (DC)	Power Rating	1/16W (<70°C)
	Capacitance Tolerance	+30% / -20%	Maximum Working Voltage	12V
	Temperature Coefficient	+20% / -55%	Temperature Coefficient	±200ppm/°C
CR1J	Dissipation Factor	3% Maximum	Resistance Tolerance	±5%
	Capacitance Range	10pF, 15pF, 22pF	Operating Temperature Range	-25°C to +85°C
			Resistor	22Ω , 33Ω , 47Ω ,
			Range	68Ω , 100Ω

applications and ratings (CR2A)

Part Designation	Capacitor Item	Capacitor Rating	Resistor Item	Resistor Rating
	Capacitance Measuring Condition	1 KHz ± 10% (1 Vrms ± 0.2V)	Power Rating	0.063W
	Voltage Rating	25V (DC)	Maximum Working Voltage	7.9V
	Capacitance Tolerance	±20% / ±30%	Maximum Overload Voltage	15.8V
	Temperature Coefficient	+20% / -55% (-25°C to +85°C)	Temperature Coefficient	±200ppm/°C
CR2A	Dissipation Factor	3% Maximum (at 1 KHz 1.0 Vrms)	Resistor Tolerance	±5%
CHZA	Insulation Resistance	1,000MΩ Minimum	Rated Ambient Temperature	+70°C
	Dielectric Withstanding Voltage	62.5V DC, 5 sec., 50mA charge	Operating Temperature Range	-25°C to +85°C
	Operating Temperature Range	-25°C to +85°C	Danieten	22Ω,47Ω,100Ω,
	Capacitance Range	22pF, 47pF, 100pF	Resistor Range	220Ω,470Ω, 1KΩ, 47KΩ

environmental applications

Derating Curve



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12/05/03





chip resistor array

environmental applications (continued)

Performance Characteristics

Parameter	Requirement	Test Method			
Insulation Resistance	More than $10^3\text{M}\Omega$	Within 2 minutes at DC 25V between terminal and another			
Dielectric Withstanding Voltage	No evidence of flaming, fuming or breakdown	2.5 times maximum rated voltage for 5 seconds with 50 mA maximum charging current			
Resistance to Solder Heat	No evidence of damage ΔC within ±20% ΔR within ±5% D.F. within 5% I.R. more than 100 M Ω	Immerse in solder (H63A) @ 260° ± 5°C for 10 seconds ± 1 second Measurement shall be done 24 hours ± 4 hours @ room condition after test.			
Solderability	Approximately 95% of the terminal should be covered with new solder	Immerse in solder (H63A) @ 235° ± 5°C for 3 seconds ± 0.5 second			
Terminal Strength (Bend Test)	No mechanical damage	Specimen shall be soldered on PCB and support by applying strength so that the bending width becomes 3mm			
Resistance to Solvents	No mechanical damage	Immerse in the IPA @ 20°C to 25°C for 60 seconds ± 10 seconds			
Vibration	No evidence of damage	2 hours in each direction of X, Y, Z on PCB at a frequency range of 10 - 55 - 10Hz with 1.5mm amplitude. Measurement shall be done 24 hours ± 4 hours @ room condition after test.			
Temperature Cycling	No evidence of damage ΔC within $\pm 20\%$ ΔR within $\pm 5\%$ D.F. within 5% I.R. more than 100 M Ω	100 cycles between -25°C/30 minutes and +85°C/30 minutes Measurement shall be done 24 hours ± 4 hours @ room condition after test.			
Humidity (No Load)	No evidence of damage ΔC within $\pm 20\%$ ΔR within $\pm 5\%$ D.F. within 5% I.R. more than 100 M Ω	MIL-STD-202F, Method 106, 10 cycles Measurement shall be done 24 hours ± 4 hours @ room condition after test.			
Moisture Resistance	No evidence of damage ΔC within $\pm 20\%$ ΔR within $\pm 5\%$ D.F. within 5% I.R. more than 100 M Ω	40°C ± 2°C, 90 - 95% RH, 500 hours Capacitor: DC 25V, 500 hr ON Resistor: Rated working voltage, 1.5 hr ON, 0.5 hr OFF Measurement of capacitor shall be done 24 hours ± 4 hours @ nominal condition after test.			
Load Life	No evidence of damage ΔC within $\pm 20\%$ ΔR within $\pm 5\%$ D.F. within 5% I.R. more than 100 M Ω	85°C ± 2°C, 1000 hours Capacitor: DC 25V, 1000 hr ON Resistor: Rated working voltage, 1.5 hr ON, 0.5 hr OFF Measurement of capacitor shall be done 24 hours ± 4 hours @ nominal condition after test.			

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