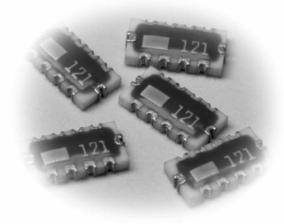




## chip resistor array



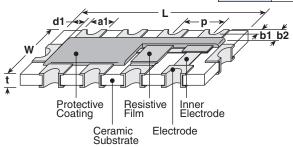


#### features

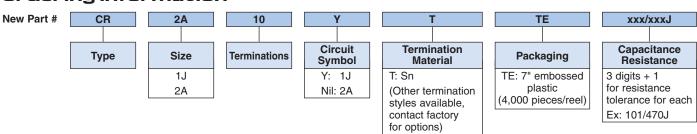
- Exceptional filtering capabilities and superior characteristics
- Filter out high frequency content of digital signals
- · Marking: Yellow three-digit on green protective coat
- Products with lead-free terminations meet EU RoHS requirements

#### dimensions and construction

	Dimensions inches (mm)							
Size	L	W	t	a1	b1	b2	d1	р
1J						.014±.004 (0.35±0.1)		
2A						.012±.008 (0.3±0.2)		



## ordering information



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

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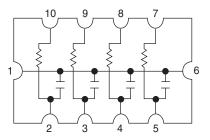
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## chip resistor array

### circuit schematic



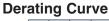
## applications and ratings (CR1J)

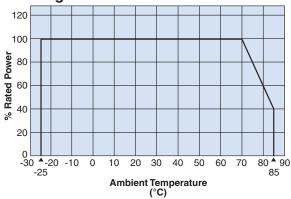
Part Designation	Capacitor Item	Capacitor Rating	Resistor Item	Resistor Rating
			Maximum Overload Voltage	15 - 8V
	Voltage Rating	12V (DC)	Power Rating	1/16W (<70°C)
	Capacitance Tolerance	+30% / -20%	Maximum Working Voltage	79V
	Temperature Coefficient	+20% / -55% (-25°C~85°C)	Temperature Coefficient	±200ppm/°C
CR1J	Dissipation Factor	3% Maximum, 0 + 1Khz 1.0Vrms	Resistance Tolerance	±5%
	Capacitance Range	10pF, 15pF, 22pF	Operating Temperature Range	-25°C to +85°C
	_	_	Resistor Range	22Ω, 47Ω, 100Ω, 220Ω
			Rated Ambient Temperature	70°C

## 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%
OHZA	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





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# chip resistor array

## environmental applications (continued)

### **Performance Characteristics**

Parameter	Requirement	Test Method		
Insulation Resistance	More than 10° MΩ	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 $\Delta C$ within ±20% $\Delta R$ within ±5% D.F. within 5% I.R. more than 100 M $\Omega$	Immerse in solder (H63A) @ $260^{\circ} \pm 5^{\circ}$ C for 10 seconds $\pm$ 1 second Measurement shall be done 24 hours $\pm$ 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 $\Delta C$ within $\pm 20\%$ $\Delta R$ within $\pm 5\%$ D.F. within 5% I.R. more than 100 M $\Omega$	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 $\Delta C$ within $\pm 20\%$ $\Delta R$ within $\pm 5\%$ D.F. within 5% I.R. more than 100 M $\Omega$	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 $\Delta C$ within $\pm 20\%$ $\Delta R$ within $\pm 5\%$ D.F. within 5% I.R. more than 100 M $\Omega$	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 $\Delta C$ within ±20% $\Delta R$ within ±5% D.F. within 5% I.R. more than 100 M $\Omega$	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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