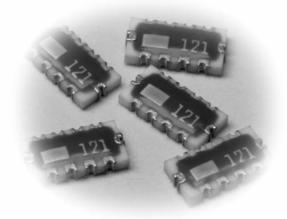


chip resistor array



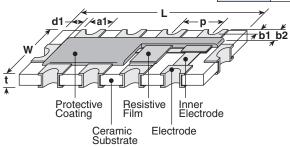


features

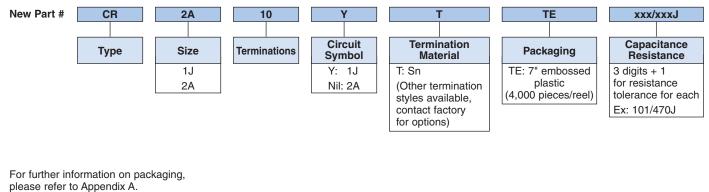
- Exceptional filtering capabilities and superior characteristics
- Filter out high frequency content of digital signals
- Marking: Yellow three-digit on green protective coat
- Products with lead-free terminations meet EU RoHS requirements

dimensions and construction

	Dimensions inches (mm)							
Size	L	W	t	a1	b1	b2	d1	р
		.063±.006 (1.6±0.15)						.025 Ref. (0.635 Ref.)
2A		.083±.008 (2.1±0.2)						



ordering information



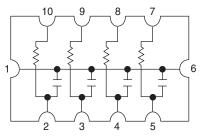
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circuit schematic



applications and ratings (CR1J)

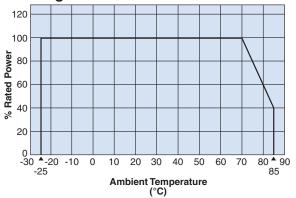
Part Designation	Capacitor Item	Capacitor Rating	Resistor Item	Resistor Rating
CR1J			Maximum Overload Voltage	15 - 8V
	Voltage Rating	12V (DC)	Power Rating	1/16W (<70°C)
	Capacitance Tolerance	+30% / -20%	Maximum Working Voltage	79V
	Temperature Coefficient	+20% / -55% (-25°C~85°C)	Temperature Coefficient	±200ppm/°C
	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
CR2A	Capacitance Tolerance	±20% / ±30%	Maximum Overload Voltage	15.8V
	Temperature Coefficient	+20% / -55% (-25°C to +85°C)	Temperature Coefficient	±200ppm/°C
	Dissipation Factor	3% Maximum (at 1 KHz 1.0 Vrms)	Resistor Tolerance	±5%
	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	Desister	22Ω,47Ω,100Ω,
	Capacitance Range	22pF, 47pF, 100pF	Resistor Range	220Ω,470Ω, 1KΩ, 47KΩ

environmental applications

Derating Curve



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environmental applications (continued)

Performance Characteristics

Parameter	Requirement	Test Method		
Insulation Resistance More than 10 ³ MΩ		Within 2 minutes at DC 25V between terminal and another		
		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) @ $260^{\circ} \pm 5^{\circ}$ 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° \pm 5°C for 3 seconds \pm 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 ±20% ΔR within ±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 \pm 4 hours @ room condition after test.		
Humidity (No Load)	No evidence of damage ΔC within ±20% ΔR within ±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 \pm 4 hours @ room condition after test.		
$ \begin{array}{c} \text{No evidence of damage} \\ \Delta \text{C within } \pm 20\% \\ \Delta \text{R within } \pm 5\% \\ \text{D.F. within } 5\% \\ \text{I.R. more than } 100 \ \text{M}\Omega \end{array} $		$40^{\circ}C \pm 2^{\circ}C$, 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 \pm 4 hours @ nominal condition after test.		
Load LifeNo evidence of damage ΔC within ±20% ΔR within ±5% D.F. within 5% I.R. more than 100 MΩ		$85^{\circ}C \pm 2^{\circ}C$, 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 \pm 4 hours @ nominal condition after test.		

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11/01/03