



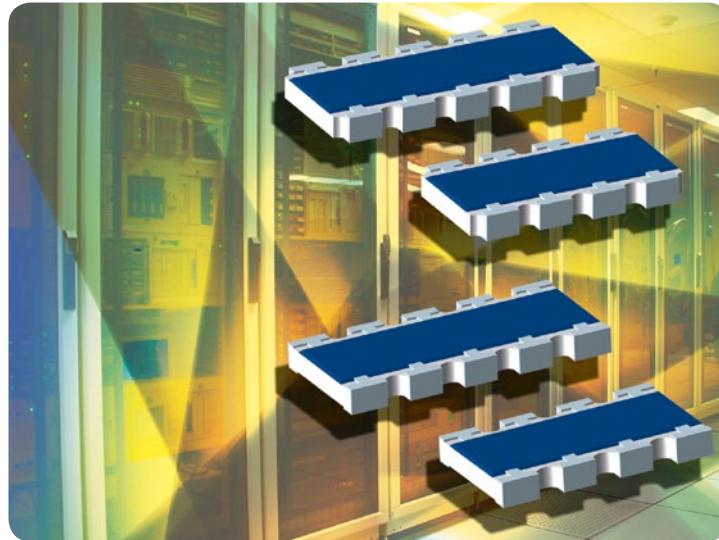
THICK FILM R/C ARRAY

CRCA12E, CRCA12S



Resistors - Reduces Board Space/Component Count

Thick Film Resistor/Capacitor Chip Array, Surface Mount



KEY BENEFITS

- Single component reduces board space and component count
- Processing speed and space reduction superior to individual components
- Provides a circuit solution within limited real estate constraints

APPLICATIONS

- Computer boards
- High-speed processing applications

RESOURCES

- Datasheet: CRCA12E, CRCA12S - <http://www.vishay.com/doc?31044>
- For technical questions contact ff2aresistors@vishay.com

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



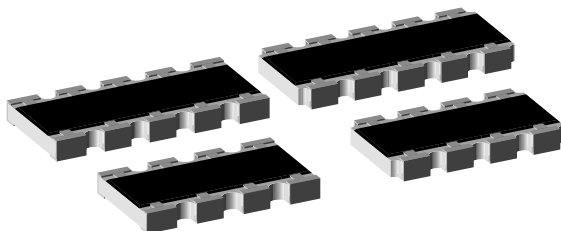
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FEATURES

- Single component reduces board space and component counts
- Choice of dielectric characteristics X7R or Y5U
- Wrap around termination
- Thick film R/C element
- Inner electrode protection
- Flow and reflow solderable
- Automatic placement capability, standard size
- 8 pin or 10 pin configurations



STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL	RESISTOR CHARACTERISTICS				CAPACITOR CHARACTERISTICS				
	POWER RATING $P_{70^{\circ}\text{C}}$ W	TEMPERATURE COEFFICIENT \pm ppm/ $^{\circ}\text{C}$	RES. TOL. \pm %	RES. RANGE Ω	DIELECTRIC	TEMPERATURE COEFFICIENT %	CAP. TOL. \pm %	CAP. VOLTAGE V_{DC}	CAP. RANGE pF
CRCA12E CRCA12S	0.125	200	5	10 to 1M	X7R	\pm 15	20	50	10 to 270
CRCA12E CRCA12S	0.125	200	5	10 to 1M	Y5U	+ 20, - 56	20	50	270 to 1800

RESISTOR <ul style="list-style-type: none"> • Operating temperature range: - 55 $^{\circ}\text{C}$ to + 125 $^{\circ}\text{C}$ • Technology: Thick film 	CAPACITOR <ul style="list-style-type: none"> • Operating temperature range: X7R - 55 $^{\circ}\text{C}$ to + 125 $^{\circ}\text{C}$ Y5U - 30 $^{\circ}\text{C}$ to + 85 $^{\circ}\text{C}$ • Maximum dissipation factor: 2.5 % • Dielectric withstanding voltage: 125 V_{DC}, 5 s, 50 mA charge
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Notes

- Ask about extended value ranges.
- Packaging: According to EIA 481.
- Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material.

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR	X7R CAPACITOR	Y5U CAPACITOR
Rated dissipation at 70 $^{\circ}\text{C}$ (CECC 40401 I EIA 575)	W	0.125	-	-
Capacitor voltage rating	V	-	50	50
Dielectric withstanding voltage (5 s, 50 mA charge)	V_{DC}	-	125	125
Category temperature range	$^{\circ}\text{C}$	- 55/+ 125	- 55/+ 125	- 30/+ 85
Insulation resistance	Ω		$> 10^{10}$	

GLOBAL PART NUMBER INFORMATION							
New Global Part Numbering: CRCA12E081472220R (preferred part numbering format)							
<div style="display: flex; justify-content: space-around; font-weight: bold; font-size: 1.2em;"> CRCA12E081472220R </div>							
MODEL	PIN COUNT	SCHEMATIC	RESISTANCE VALUE	CAPACITANCE VALUE	PACKAGING		SPECIAL
CRCA12E CRCA12S	08 = 8 pin 10 = 10 pin	1 = 01 2 = 02 3 = 03 0 = Special	2 digit significant figures, followed by a multiplier 100 = 10 Ω 683 = 68 k Ω 105 = 1.0 M Ω (Tolerance = \pm 5 %)	2 digit significant figures, followed by multiplier 100 = 10 pF 271 = 270 pF 182 = 1800 pF (Tolerance = \pm 20 %)	E = Lead (Pb)-free, T/R (2000 pcs) R = Tin/Lead, T/R (2000 pcs)		(Dash number) (Up to 1 digit) Blank = Standard
Historical Part Number Example: CRCA12E0801472J220MRB8 (will continue to be accepted)							
CRCA12E	08	01	472	J	220	M	RB8
MODEL	PIN COUNT	SCHEMATIC	RESISTANCE VALUE	TOLERANCE	CAPACITANCE VALUE	TOLERANCE	PACKAGING

Revision 03-Mar-10