



RESISTIVE PRODUCTS – Model CRCC



CRCC

Surface-Mount Thick Film Resistor/Capacitor Chip

FEATURES

- 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

Thick Film, Rectangular Resistor/Capacitor Chip



FEATURES

- Single component reduces board space and component counts
- Choice of Dielectric Characteristics X7R or Y5U
- Wrap around termination
- Thick film Resistor/Capacitor element
- Inner electrode protection
- Flow & Reflow solderable
- Automatic placement capability, standard size

DIMENSIONS

		DIMENSIONS [in millimeters]						
		INCH	METRIC	L	W	H	T1	T2
		1206	3216	3.2 ± 0.15	1.6 ± 0.15	0.55 ± 0.15	0.5 ± 0.25	0.5 ± 0.25
		1206	3216	3.2 ± 0.15	1.6 ± 0.15	0.55 ± 0.15	0.5 ± 0.25	0.5 ± 0.25

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	CAPACITOR					
		RESISTOR	POWER RATING P _{70°C} W	TEMPERATURE COEFFICIENT ppm/°C	VALUERANGE Q	DIELLECTRIC	TEMPERATURE COEFFICIENT %
CRCC1206	1206	0.125	0.125	200	5	10R - 1MΩ	X7R
CRCC1206	1206	0.125	0.125	200	5	10R - 1MΩ	Y5U
RESISTOR						CAPACITOR	
Operating Temperature Range:	- 55°C to + 125°C					Operating Temperature Range: X7R - 55°C to + 125°C	
• Technology: thick film						Y5U - 30°C to + 85°C	
						• Maximum Dissipation Factor: 2.5%	
						• Packaging: see appropriate catalog or web page	
						• Power rating depends on the maximum 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°C	W	0.125	—	—
Capacitor Voltage Rating	V	—	50	50
Dielectric Withstanding Voltage (5 seconds, 50mA Charge)	V _{dc}	—	125	125
Category Temperature Range	°C	- 55 / + 125	- 55 / + 125	- 30 / + 85
Insulation Resistance	Ω	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰
Weight / 1000 pieces	g	0.65	2	5.5

• Packaging: see appropriate catalog or web page

• Power rating depends on the maximum temperature at the solder point, the component placement density and the substrate material

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: CRCC12064724220MTR02 (preferred part numbering format)

GLOBAL MODEL	C	R	C	C	1	2	0	6	4	7	2	0	M	T	F	PACKAGING
CRCC1206																EA = Lead Free, TR4000 (2000 hrs) TF = Tin Lead, TR4000 (2000 hrs)
RESISTANCE VALUE	RES. TOLERANCE		CAPACITANCE VALUE (pF)		CAP. TOLERANCE (%)		K = ± 10%		M = ± 20%		J = ± 5%		G = ± 2%		2 digit significant figure, followed by a multiplier	
2 digit significant figure, followed by a multiplier	100 = 1.0Ω 683 = 68kΩ 105 = 1.0MΩ		100 = 100pF 271 = 270pF 182 = 1800pF		100 = 10% M = ± 20%		J = ± 5% G = ± 2%		J = ± 5% G = ± 2%		J = ± 5% G = ± 2%		J = ± 5% G = ± 2%		J = ± 5% G = ± 2%	
Historical Part Number example: CRCC12064724220MTR02 (will continue to be accepted)	CRCC1206	472	J	220	M	220	R02	220	M	220	R02	220	M	220	R02	PACKAGING
MODEL	RESISTANCE VALUE	RES. TOLERANCE	CAPACITANCE VALUE	CAP. TOLERANCE	K	M	J	G	J	M	G	J	M	T	F	PACKAGING

REV

13-AUG-04

For technical questions, contact: ff2resistors@vishay.com