

Ceramic Resonator - CRACV and CRTCV

SMD Version - 3.7 x 3.1 x 1.2

Features

Low cost & wide applications

Industrial standard

RoHS compliant

General Specification

Tura	CRACV/ MT	CRACV/ MX	CRTCV / MT	CRTCV / MX	
Туре	2pins, no bui	lt-in capacitor	3pins, with built-in capacitor		
Frequency Range	8.00 to 13.00MHz	13.01 to 33.86MHz	8.00 to 13.00MHz	13.01 to 33.86MHz	
Frequency Stability at 25°C	0.50%		<u>+</u> 0.5%		
Frequency Stability vs Temperature Range	<u>+</u> 0.4%	<u>+</u> 0.3%	<u>+</u> 0.4%	<u>+</u> 0.3%	
Operating Temperature Range	-20°C to +80°C		-20°C to +80°C		
Storage Temperature Range	-35°C to +85°C		-35°C to +85°C		
Series Resistance ESR	25Ω	40Ω 25Ω		40Ω	
Operating Voltage	5V		5V		
Aging for 10 years	<u>+</u> 0.3%		<u>+</u> 0.3%		
Built-in Capacitor (C1, C2)	No		Yes		

• Holder and Type Codes

CR = Ceramic Resonator	A = 2pins, no built-in capacitor	T = 3pins, with built-in capacitor
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Lead Type Code

 $CV = SMD, 3.7 \times 3.1 \times 1.2$

• Vibration Mode Codes

G = Thickness Shear	T = Thickness Expander	X = Thickness Expander (3rd OT)
O - Thickness shear	1 – Thickness Expander	A - Thickness Expander (31d O1)

• Frequency Stability vs Temperature Codes

$1 = \pm 0.1\%$ $2 = \pm 0.2\%$ $3 = \pm 0.3\%$ $5 = \pm 0.3\%$

• Loading Capacitance Codes (pF)

1 = 5	2 = 6	3 = 15	4 = 22	
5 = 30	6 = 47	8 = 100		

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Marking

Frequency + M (MHz)

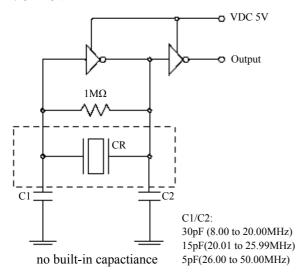
• Ordering Information

Holder	Туре	Lead Type	Frequency	Vibration Mode	Frequency Stability vs Temp	Load Capacitance	Packing
			(MHz)			(pF)	
See Tables xx		xx.xxM	See Tables		TR=tape & reel		
	A=2pins, no built-in			·	<u>+</u> 0.3%	30	
CR	A	CV		T	3	5	TR

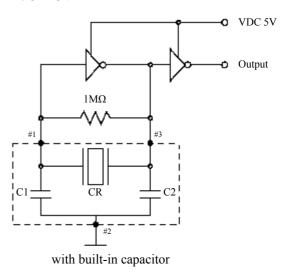
For Example: CRACV8.000MT35/TR

Test Circuit

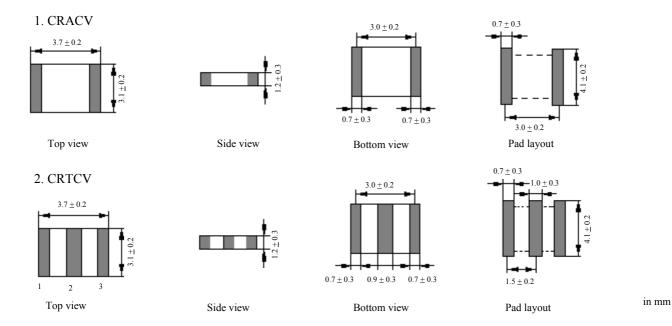
1. CRACV



2. CRTCV



Dimensions

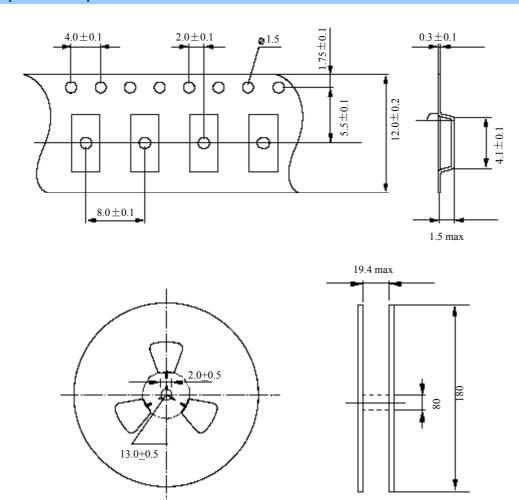


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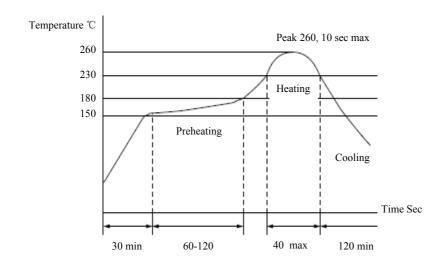
• Tape & Reel Specification



* Reel Quantity: 1,000pcs

in mm

• Reflow Soldering Profile



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