

Ceramic Resonator - CRACC and CRTCC

SMD Version - 7.4 x 3.4 x 1.8

Features

Low cost & wide applications

Industrial standard

RoHS compliant

General Specification

Т	CRACC / MG	CRTCC / MG		
Туре	2pins, no built-in capacitor	3pins, with built-in capacitor		
Frequency Range	2.00 to 7.99MHz	2.00 to 7.99MHz		
Frequency Stability at 25℃	<u>+</u> 0.5%	<u>+</u> 0.5%		
Frequency Stability vs Temperature Range	±0.3% (-20°C to +80°C)			
Operating Temperature Range	-20°C to +80°C	-20°C to +80°C		
Storage Temperature Range	-35℃ to +85℃	-35°C to +85°C		
	200Ω (2.00MF	Hz to 2.90MHz)		
Series Resistance ESR	100Ω (3.00MHz to 3.57MHz)			
	300Ω (3.58MHz to 7.99MHz)			
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

 $CC = SMD, 7.4 \times 3.4 \times 1.8$

• Vibration Mode Codes

G = Thickness Shear	T = Thickness Expander	X = Thickness Expander (3rd OT)
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• Frequency Stability vs Temperature Codes

		1 = <u>+</u> 0.1%	$2 = \pm 0.2\%$	$3 = \pm 0.3\%$	5 = <u>+</u> 0.5%
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• Loading Capacitance Codes (pF)

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

NEWXTAL - New Crystal

Website: www.newxtal.com Email: sales@newxtal.com

Ceramic Resonator - CRACC and CRTCC

Marking

Frequency + M (MHz)

Ordering Information

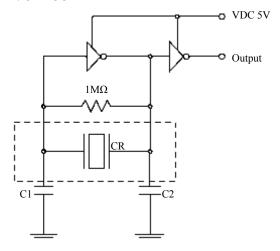
Holder	Туре	Lead Type	Frequency	Vibration Mode	Frequency Stability vs Temp	Load Capacitance	Packing
			(MHz)			(pF)	
See Tables			xx.xxxM		See Tables		TR=tape & reel
	A=2pins, no built-in				<u>+</u> 0.3%	30	
CR	A	CC		G	3	5	TR

For Example:

CRACC3.58MG35/TR

Test Circuit

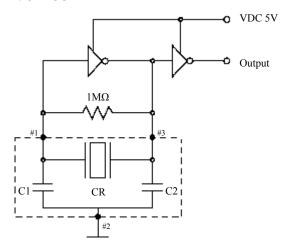
1. CRACC



no built-in capactiance

C1/C2: 30pF

2. CRTCC

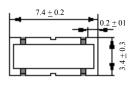


with built-in capacitor

C1/C2: 30pF

Dimensions

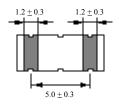
1. CRACC



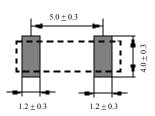
Top view



Side view

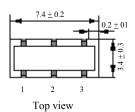


Bottom view



Pad layout

2. CRTCC



1.2 \pm 0.3 1.2 \pm 0.3 1.2 \pm 0.3 2.5 \pm 0.3 Bottom view

 3.0 ± 0.3 2.5 ± 0.3 1.2 ± 0.3 1.5 ± 0.3

Pad layout

in mm

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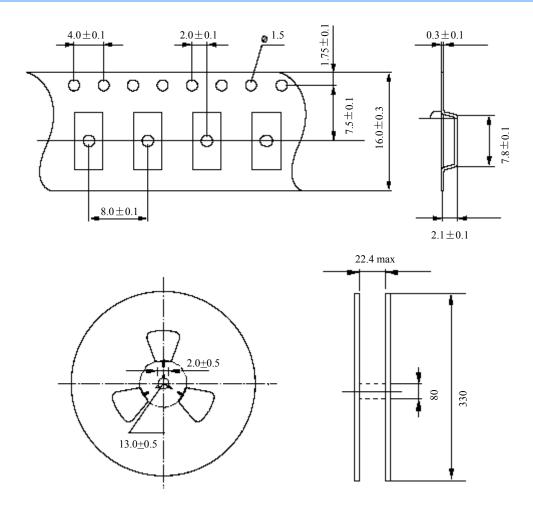
Website: www.newxtal.com

Side view

Email: sales@newxtal.com

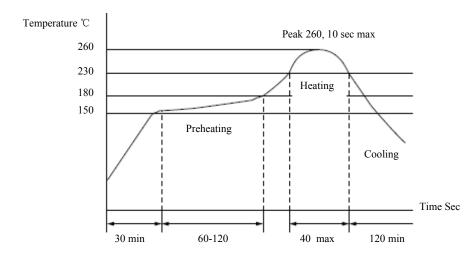
Ceramic Resonator - CRACC and CRTCC

• Tape & Reel Specification



in mm

Reflow Soldering Profile



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^{*} Reel Quantity: 1,000pcs to 4,000pcs