# NEWXTAL

# Ceramic Resonator - CRA

Pin Type - 10.0 x 10.0 x 5.0

#### Features

Low cost & wide applications

Industrial standard

RoHS compliant

## General Specification

Tyma	CRA/ MG	CRA/ MG CRA/ MT			
Туре	2pins, no built-in capacitor				
Frequency Range	1.80 to 6.00MHz	6.01 to 13.00MHz	13.01 to 60.00MHz		
Frequency Stability at 25°C	0.50%	0.50%	<u>+</u> 0.5%		
Frequency Stability vs Temperature Range	<u>+</u> 0.3%	<u>+</u> 0.3%	<u>+</u> 0.3%		
Operating Temperature Range -20°C to +80°C		-20°C to +80°C	-20°C to +80°C		
Storage Temperature Range	-35°C to +85°C	-35°C to +85°C	-35°C to +85°C		
Series Resistance ESR	$100\Omega$	30Ω	$40\Omega$		
Operating Voltage	5V	5V	5V		
Aging for 10 years	ging for 10 years $\pm 0.3\%$		<u>+</u> 0.3%		
Built-in Capacitor (C1, C2)	No	No	No		

## Holder and Type Codes

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

Blank = N/A

#### Vibration Mode Codes

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

$1 = \pm 0.1\%$	$2 = \pm 0.2\%$	$3 = \pm 0.3\%$	$5 = \pm 0.5\%$

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#### • Loading Capacitance Codes (pF)

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

#### Marking

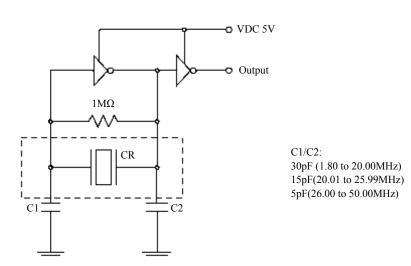
Frequency + M (MHz)

#### Ordering Information

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

For Example: CRA3.58MG35

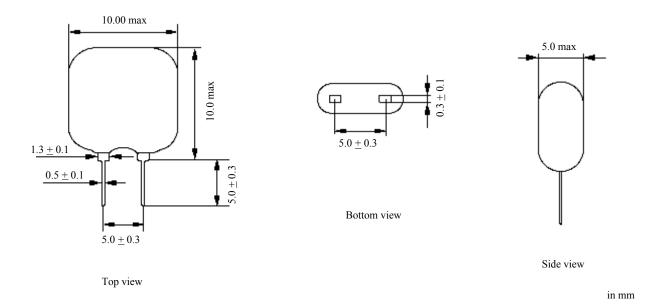
#### Test Circuit



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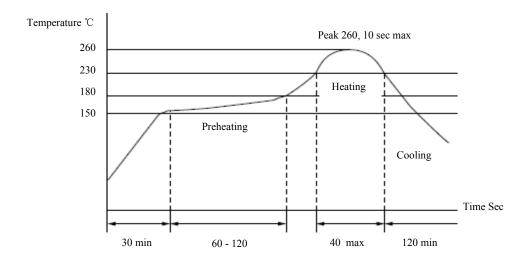
#### Dimensions



## Packing

Bulk.

## • Reflow Soldering Profile



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