Ceramic Resonator - CRA

Pin Type - 10.0 x 10.0 x 5.0

• Features

Low cost & wide applications

Industrial standard

RoHS compliant

• General Specification

Type	CRA/ MG	CRA/ MT	CRA / MX
	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℃	0.50%	0.50%	±0.5%
Frequency Stability vs Temperature Range	±0.3%	±0.3%	±0.3%
Operating Temperature Range	-20℃ to +80℃	-20℃ to +80℃	-20℃ to +80℃
Storage Temperature Range	-35℃ to +85℃	-35℃ to +85℃	-35℃ to +85℃
Series Resistance ESR	100Ω	30Ω	40Ω
Operating Voltage	5V	5V	5V
Aging for 10 years	±0.3%	±0.3%	±0.3%
Built-in Capacitor (C1, C2)	No	No	No

• Holder and Type Codes

CR = Ceramic Resonator	A = 2pins, no built-in capacitor

• Lead Type Code

Blank = N/A

• Vibration Mode Codes

G = Thickness Shear	T = Thickness Expander	X = Thickness Expander (3rd OT)

• Frequency Stability vs Temperature Codes

1 = ±0.1%	2 = ±0.2%	3 = ±0.3%	5 = ±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

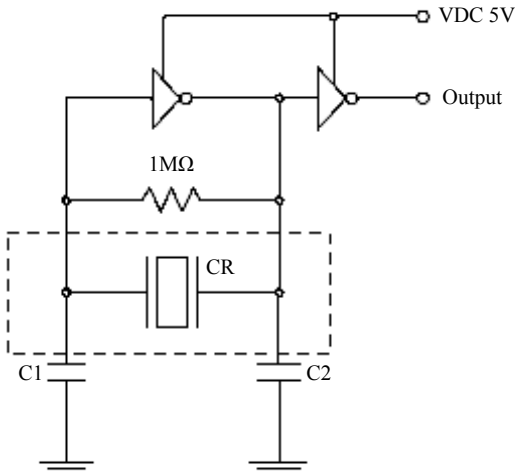
Frequency + M (MHz)

• Ordering Information

Holder	Type	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				±0.3%	30	
CR	**A**			**G**	**3**	**5**	

For Example: CRA3.58MG35

• Test Circuit



C1/C2:
30pF (1.80 to 20.00MHz)
15pF(20.01 to 25.99MHz)
5pF(26.00 to 50.00MHz)

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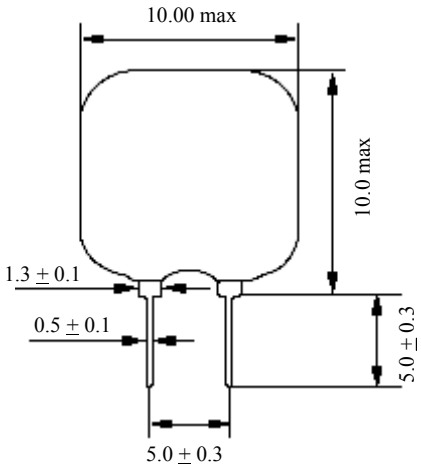
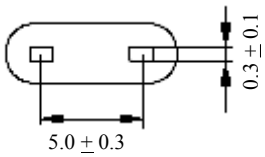
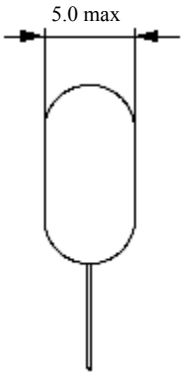
• Dimensions



Top view



Bottom view



Side view

in mm

• Packing

Bulk.

• Reflow Soldering Profile