

MV-CA044-5032C is a Crystal (XTAL) . This Crystal is an AT Cut resonator and comes in a Hermetic Ceramic 5.0x3.2mm package.

The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

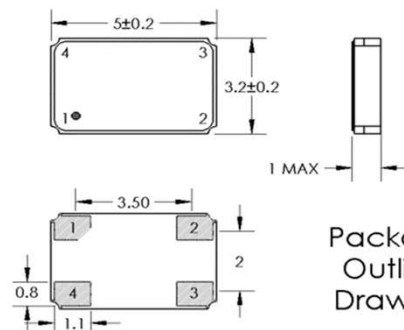
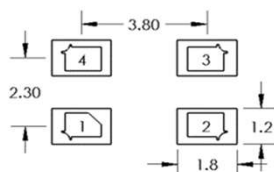
## Electrical Performance

Parameter	Min	Typ	Max	Units
<b>General</b>				
Output Frequency	8		156	MHz
Mode	Fundamental, 3OT			
Operating Temperature	-10/+70 -40/+85 -40/+105 -55/+125			°C
Storage Temperature	-55/125			°C
Stability Over Temperature	±100 ±50 ±30 ±25 ±20 ±15 ±10			ppm
Frequency Tolerance ( 25°C ±3°C)	±30 ±10			ppm
Aging			±5	ppm/year
Drive Level		10	100	µW
Package Size	5.0 x 3.2 x 1.0			mm
<b>Equivalent Circuit</b>				
Load Capacitance (CL)	6 to 32			pF
Shunt Capacitance (C0)				5
Equivalent Series Resistance (ESR)				
8 MHz to 12 MHz				80
12.1 MHz to 16 MHz				60
16.1 MHz to 20 MHz				50
20.1 MHz to 24 MHz				40
24.1 MHz to 54 MHz				30
40 MHz to 156.25 MHz (3rd OT)				80
Insulation Resistance	500			MΩ

## Package Information

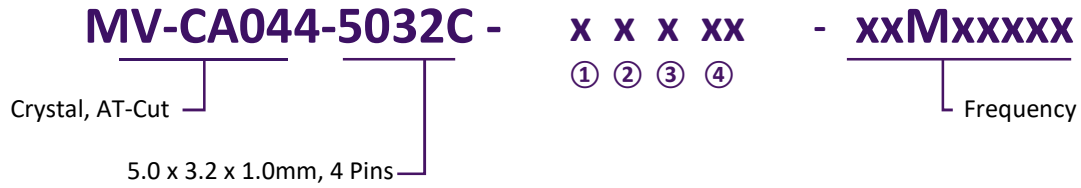
Pin #	Function
Pin 1	Crystal Terminal
Pin 2	GND = Ground
Pin 3	Crystal Terminal
Pin 4	GND = Ground

Pad Layout



Package Outline Drawing

Ordering Information



① Temp Range

J: -10/+70 °C  
 K: -40/+85 °C  
 L: -40/+105 °C  
 N: -55/+125 °C

② Temp Stability

A: ±100 ppm  
 C: ±50 ppm  
 D: ±30 ppm  
 E: ±25 ppm  
 F: ±20 ppm  
 G: ±15 ppm  
 J: ±10 ppm

③ Initial Tolerance

J: ±10 ppm  
 D: ±30 ppm

④ Load Capacitance

00: Series Resonance  
 F0: 6.0 pF  
 G0: 7.0 pF  
 J0: 9.0 pF  
 M5: 12.5 pF  
 T0: 18 pF  
 XX: Other (CL) Ordering Codes

**Ordering Option Notes:**

- 1 For XX: Other Load Capacitance ordering codes (<http://datasheets.mv-electronics.com/XTAL-LoadCap.pdf>)
- 2 For temperatures wider than -40/85, only 50ppm and 100ppm available.