

MV-CA052-2520C is a Crystal (XTAL) . This Crystal is an AT Cut resonator and comes in a Hermetic Ceramic 2.5x2.0mm package.

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

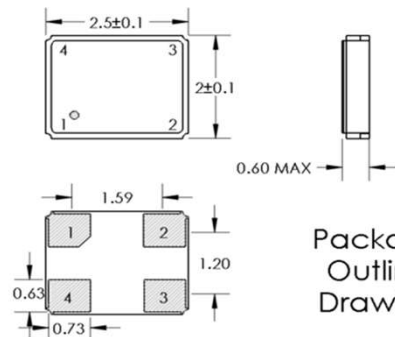
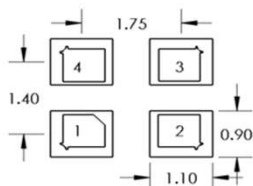
Electrical Performance

Parameter	Min	Typ	Max	Units
General				
Output Frequency	14		60	MHz
Mode	Fundamental			
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			µW
Package Size	2.5 x 2.0 x 0.6			mm
Equivalent Circuit				
Load Capacitance (CL)	6 to 32			pF
Shunt Capacitance (C0)				5 pF
Equivalent Series Resistance (ESR)				
14 MHz to 20 MHz				80 Ω
20.1 MHz to 30 MHz				60 Ω
30.1 MHz to 35 MHz				50 Ω
35.1 MHz to 60 MHz				40 Ω
Insulation Resistance	500			MΩ

Package Information

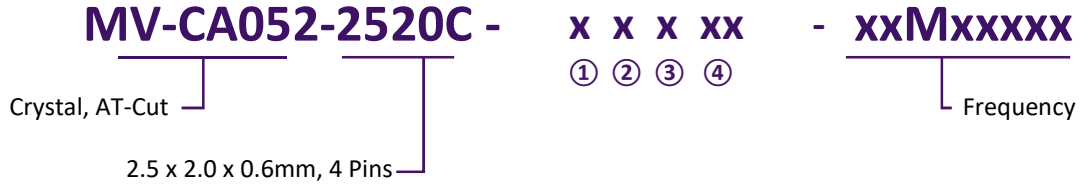
Pin #	Function
Pin 1	Crystal Terminal
Pin 2	GND = Ground
Pin 3	Crystal Terminal
Pin 4	GND = Ground

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.