MV-CA050-3225C

Crystal (XTAL)

3.2 x 2.5mm - AT Cut

MV-CA050-3225C is a Crystal (XTAL) . This Crystal is an AT Cut resonator and comes in a Hermetic Ceramic 3.2x2.5mm package.

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

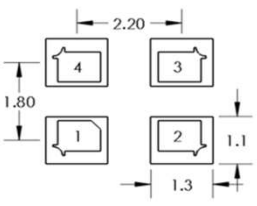
Electrical Performance

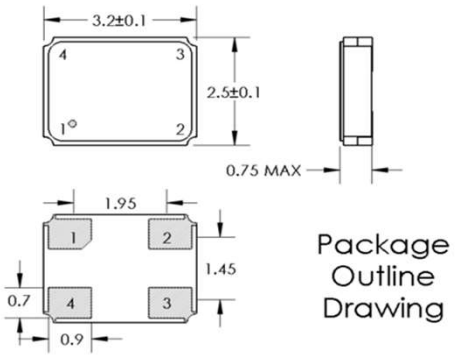
Parameter	Min	Typ	Max	Units
General				
Output Frequency	12		60	MHz
Mode		Fundamental		
Operating Temperature		-10/+70 -40/+85 -40/+105 -55/+125		°C
Storage Temperature		-55/125		°C
Stability Over Temperature		±100 ±50 ±30 ±25 ±20 ±15 ±10		ppm
Frequency Tolerance (25°C ±3°C)		±30 ±10		ppm
Aging			±5	ppm/year
Drive Level		10	100	µW
Package Size		3.2 x 2.5 x 0.75		mm
Equivalent Circuit				
Load Capacitance (CL)		6 to 32		pF
Shunt Capacitance (C0)			5	pF
Equivalent Series Resistance (ESR)				
12 MHz to 14 MHz			100	Ω
14.1 MHz to 19 MHz			80	Ω
19.1 MHz to 30 MHz			60	Ω
30.1 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

MV-CA050-3225C - x x x xx - xxMxxxxx

① ② ③ ④

Crystal, AT-Cut

3.2 x 2.5 x 0.75mm, 4 Pins

Frequency

① Temp Range	② Temp Stability	③ Initial Tolerance	④ Load Capacitance
J: -10/+70 °C	A: ±100 ppm	J: ±10 ppm	00: Series Resonance
K: -40/+85 °C	C: ±50 ppm	D: ±30 ppm	F0: 6.0 pF
L: -40/+105 °C	D: ±30 ppm		G0: 7.0 pF
N: -55/+125 °C	E: ±25 ppm		J0: 9.0 pF
	F: ±20 ppm		M5: 12.5 pF
	G: ±15 ppm		T0: 18 pF
	J: ±10 ppm		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.