

MV-CA020-UM1TH is a Crystal (XTAL) . This Crystal is an AT Cut resonator and comes in a metal can UM-1, Metal Can - (7.9x3.2)mm package.

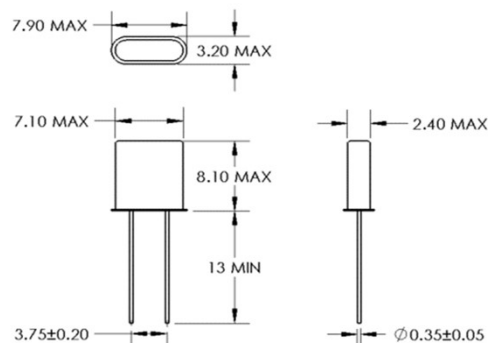
The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

Electrical Performance

Parameter	Min	Typ	Max	Units
General				
Output Frequency	10		150	MHz
Mode		Fundamental, 3OT		
Operating Temperature		-10/+70 -40/+85		°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		UM-1, Through Hole		
Equivalent Circuit				
Load Capacitance (CL)		6 to 32		pF
Shunt Capacitance (C0)			5	pF
Equivalent Series Resistance (ESR)				
1.8432 MHz to 2 MHz			500	Ω
2.1 MHz to 2.456 MHz			450	Ω
2.457 MHz to 3 MHz			350	Ω
3.1 MHz to 4 MHz			90	Ω
4.1 MHz to 5 MHz			70	Ω
5.1 MHz to 8 MHz			60	Ω
8.1 MHz to 10 MHz			30	Ω
10.1 MHz to 50 MHz			25	Ω
24 MHz to 150 MHz (3rd OT)			40	Ω
Insulation Resistance	500			MΩ

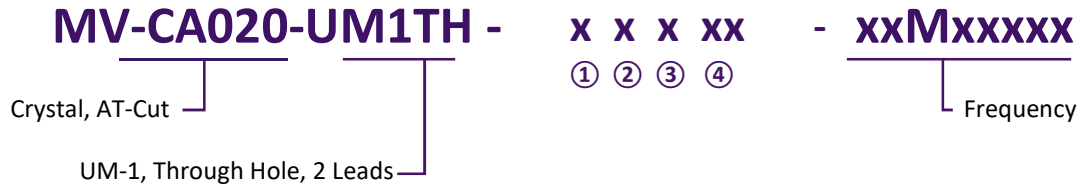
Package Information

Pin #	Function
Pin 1	Crystal Terminal
Pin 2	Crystal Terminal



Package
Outline
Drawing

Ordering Information



① Temp Range

J: -10/+70 °C
K: -40/+85 °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>)