MV-CA001-49UTH

Crystal (XTAL)

HC-49/U, Through Hole - AT Cut

MV-CA001-49UTH is a Crystal (XTAL) . This Crystal is an AT Cut resonator and comes in a metal can HC-49/U - (11.5x5.0)mm package.

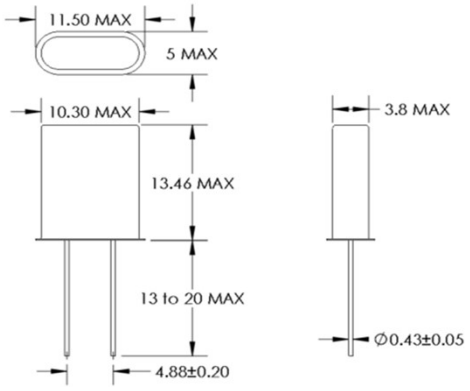
The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

Electrical Performance

Parameter	Min	Typ	Max	Units
General				
Output Frequency	1.54		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		HC-49/U, Through Hole		
Equivalent Circuit				
Load Capacitance (CL)		6 to 32		pF
Shunt Capacitance (C0)			5	pF
Equivalent Series Resistance (ESR)				
1.536 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

MV-CA001-49UTH - x x x xx - xxMxxxxx

① ② ③ ④

Crystal, AT-Cut

HC-49/U, Through Hole, 2 Leads

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
	D: ±30 ppm		G0: 7.0 pF
	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)