

MV-CA004-49S44 is a Crystal (XTAL) . This Crystal is an AT Cut resonator and comes in a metal can HC-49/US SMD - (11.5x5.0)mm package.

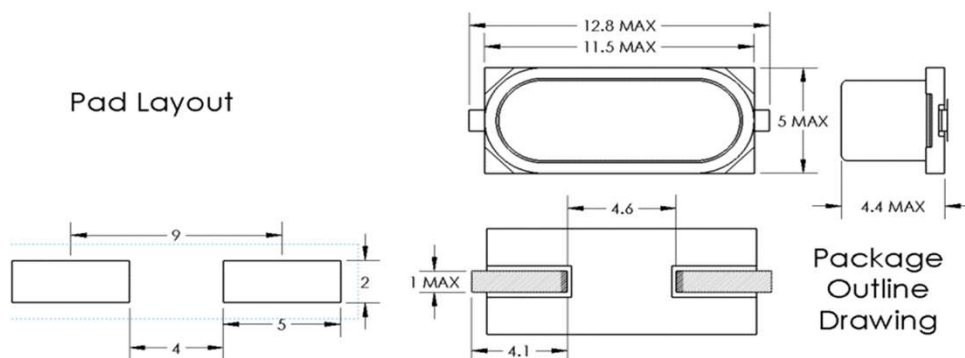
The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

Electrical Performance

Parameter	Min	Typ	Max	Units
General				
Output Frequency	3.5		75	MHz
Mode		Fundamental		
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/US, Low Profile (4.4mm), SMD		
Equivalent Circuit				
Load Capacitance (CL)		6 to 32		pF
Shunt Capacitance (C0)			5	pF
Equivalent Series Resistance (ESR)				
3.5 MHz to 4 MHz			140	Ω
4.1 MHz to 5 MHz			120	Ω
5.1 MHz to 6 MHz			80	Ω
6.1 MHz to 7 MHz			70	Ω
7.1 MHz to 9 MHz			45	Ω
9.1 MHz to 13 MHz			40	Ω
13.1 MHz to 16 MHz			35	Ω
16.1 MHz to 20 MHz			30	Ω
20.1 MHz to 30 MHz			25	Ω
24 MHz to 32 MHz (3rd OT)			120	Ω
32 MHz to 75 MHz (3rd OT)			80	Ω
Insulation Resistance	500			MΩ

Package Information

Pin #	Function
Pin 1	Crystal Terminal
Pin 2	Crystal Terminal



Ordering Information

MV-CA004-49S44 -

Crystal, AT-Cut

HC-49/US, Low Profile (4.4mm), SMD, 2 Pins

x x x xx

① ② ③ ④

- xxMxxxxx

Frequency

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>)