

HA

# Precision Devices Inc.

1-800-274-XTAL

INFO@PDIXTAL.COM



## QUARTZ CRYSTAL

The HC-49/U series provides a broad range of frequencies, packaged in a robust, high reliability enclosure. The HC-49/U has an extremely low cost with excellent electrical parameters.

### ELECTRICAL PERFORMANCE (Ta=25°C)

Parameter	Standard Observed
Mechanical Shock	MIL-STD-202 Method 213, Condition C
Vibration	MIL-STD-202 Method 201, 204, and 214
Hermeticity	MIL-STD-202, Method 112
Solderability	IPC/EIA-STD-002A

PARAMETER	MINIMUM	MAXIMUM	UNITS
Center Frequency	500.0KHz	350.000	MHz
Oscillation Mode	Fundamental, 3 <sup>rd</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup> Overtone		
Maximum Series Resistance (See Note 3)	10.0	350.0	Ohms
Frequency Stability at +25°C (See Note 2)			
±50.0ppm Typ.	±5.0	±100.0	ppm
Frequency Stability Over Temperature			
±50.0ppm Typ.	±5.0	±100.0	ppm
Operating Temperature Range (See Note 2)	-20	+70	°C
Storage Temperature Range	-55	+125	°C
Drive Level	100.0uW		
Typical	1.0uW	1.0mW	
Seal Method	Resistance		
Weld			
Shunt Capacitance	1.0	7.0	pF
Motional Capacitance	Customer Request		
Load Capacitance	Series	110.0	pF
Aging per year	±1.0	±5.0	ppm

