

# HC-49/U SMD

## STANDARD QUARTZ CRYSTAL WITH GULLWING

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.

### ADVANTAGES

- Surface Mount
- Low Cost
- Hermetic Package
- 350MHz Operating Frequency

### APPLICATIONS

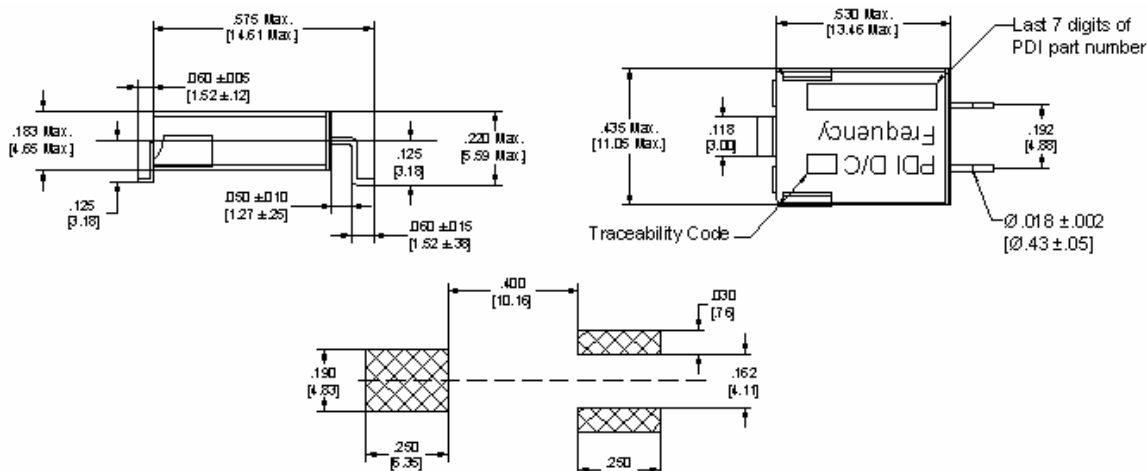
- Telecommunications
- Set Top Box
- Microprocessors
- Personal Computers
- Modem Chip Sets
- Base Station
- Military



### ELECTRICAL PERFORMANCE (Ta=25°C)

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 4)	10.0	350.0	Ohms
Frequency Stability at +25°C (See Note 2)	±5.0	±100.0	ppm
Frequency Stability Over Temperature	±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		
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

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



- NOTES**
- 1) To order, state part number, options and nominal frequency e.g. HC-49/U 100.000MHz
  - 2) Other temperature ranges, stabilities and electrical parameters are readily available upon request.
  - 3) Other specifications available upon request.
  - 4) Dependent on frequency and mode

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