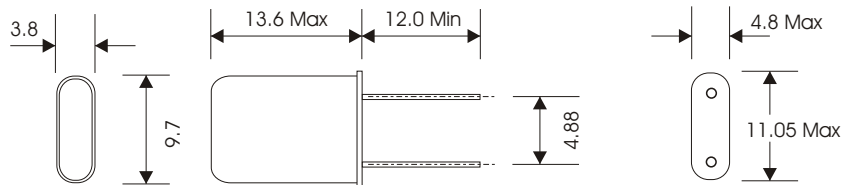




## HC-49/U Standard Height Crystal



HC-49/U

### FEATURES

- Wide Frequency Range
- Additional EMI Protection
- Custom Manufacturing Capability
- Fast Turnaround Options

### APPLICATIONS

- Microprocessor Systems
- Datacommunications
- Consumer Electronics
- Automotive Electronics

#### STANDARD SPECIFICATION

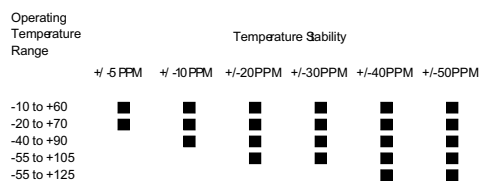
Frequency Range: 300 kHz to 225 MHz  
 Adjustment Tolerance at 25°C: ±30PPM Max.  
 Frequency Stability: ±50PPM Max.  
 Operating Temperature Range: -10°C to +60°C  
 Load Capacity: 30pF  
 E.S.R: See Table  
 Drive level: 500 MicroWatt  
 Ageing: ±5PPM 1st Year Max.

| Frequency Range   | E.S.R  |
|-------------------|--------|
| 300kHz ~ 800 kHz  | 3000 Ω |
| 800kHz ~ 1.3 MHz  | 5000 Ω |
| 1.8 MHz ~ 2.0 MHz | 800 Ω  |
| 2.0MHz ~ 2.4 MHz  | 300 Ω  |
| 2.4MHz ~ 3.0 MHz  | 250 Ω  |
| 3.0MHz ~ 3.2 MHz  | 120 Ω  |
| 3.2MHz ~ 4.0 MHz  | 90 Ω   |
| 4.0MHz ~ 4.2 MHz  | 100 Ω  |
| 4.2MHz ~ 6.0 MHz  | 50 Ω   |
| 6.0MHz ~ 8.0 MHz  | 40 Ω   |
| 8.0MHz ~ 36 MHz   | 25 Ω   |
| 36MHz ~ 64 MHz    | 40 Ω   |
| 64MHz ~ 125 MHz   | 80 Ω   |
| 125MHz ~ 200 MHz  | 140 Ω  |

#### AVAILABLE OPTIONS

Frequency Range: 300 kHz ~ 225 MHz  
 Adjustment Tolerance: ±5PPM ~ ±100PPM  
 Load Capacity: Series or 9pF ~ 50pF  
 Shunt Capacity (C0): 4.5pF ~ 7pF (Typ.)  
 Dynamic Capacity (C1): 18fF ~ 20fF (Typ.)

#### Frequency Stability vs Operating Temperature Range



#### Value Added Services

In addition, AEL Crystals Ltd are able to offer our customers the following value added services:-

- Fitted Insulators
- Radial Taping
- Lead Pre-Forming
- Lead Cropping
- Earth Lead
- Bar-Coding



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