

**PACKAGE**  
HC-49U

**FREQUENCY**  
Customer Specified

## Part Number Guide



**CCL-6 - 10.000MHz - B - 2 - 5 - F - R**

**TOLERANCE/STABILITY vs. TEMP**

- A..... 100ppm / 100ppm
- B..... 50ppm / 100ppm
- C..... 50ppm / 50ppm
- D..... 25ppm / 100ppm
- E..... 25ppm / 50ppm
- F..... 25ppm / 25ppm
- G..... 10ppm / 50ppm
- H..... 10ppm / 25ppm
- I..... 10ppm / 10ppm
- J... Customer Specified

**OPERATING TEMPERATURE**

- 1.... 0°C to +70°C
- 2.... -10°C to +60°C
- 3.... -20°C to +70°C
- 4.... -40°C to +85°C
- 5.... Customer Specified

**LOAD CAPACITANCE**

- S...Series
- 1....50 pF
- 2....32 pF
- 3....30 pF
- 4....20 pF
- 5....18 pF
- 6....15 pF
- 7....10 pF
- 8....7.5 pF
- P...Pullability Spec.
- X...Customer Specified

**MODE OF OPERATION**

- F..... Fundamental
- 3..... 3<sup>RD</sup> Overtone
- 5..... 5<sup>TH</sup> Overtone
- 7..... 7<sup>TH</sup> Overtone
- 9..... 9<sup>TH</sup> Overtone
- 11..... 11<sup>TH</sup> Overtone

**OPTIONS**

- \* Blank No Option
- A... Ground Wire
- B... Vinyl Sleeve
- C.. Base Insulators
- G.. Gull Wing
- R.. RoHS Compliant
- Z... Customer Specified

### Electrical Specifications

Frequency Range	1.8432 MHz ~ 200.000 MHz
Load Capacitance	Series Resonance or Parallel
Shunt Capacitance	7pF Max.
Drive Level	1mW Typical
Aging	±5ppm Max. / Year

Maximum Equivalent Series Resistance (Ω)			
Freq. Range (MHz)	ESR (Ω)	Freq. Range (MHz)	ESR (Ω)
Fundamental Mode		3rd Overtone	
1.8432 ~ 1.999	600	24.000 ~ 29.999	60
2.000 ~ 2.999	500	30.000 ~ 80.000	40
3.000 ~ 3.499		5th Overtone	
3.500 ~ 3.999	120	60.000 ~ 79.999	60
4.000 ~ 4.999	100	80.000 ~ 109.999	80
5.000 ~ 5.999		7th Overtone	
6.000 ~ 6.999	60	110.000 ~ 134.999	90
7.000 ~ 7.999	50	135.000 ~ 149.999	120
8.000 ~ 9.999		9th & 11th Overtone	
10.000 ~ 12.999	30	9th 150.000 ~ 190.000	120
13.000 ~ 30.000	25	11th 160.000 ~ 200.000	120

### Mechanical Specifications

