

**PACKAGE**  
HC-49U

**FREQUENCY**  
Customer Specified

### Part Number Guide



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

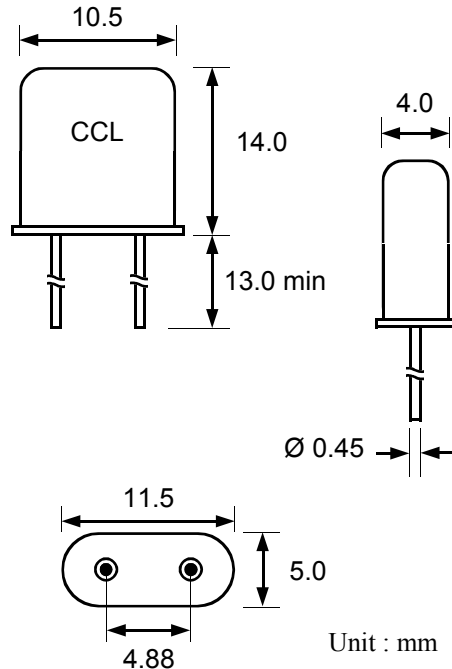
<u>TOLERANCE/STABILITY vs. TEMP</u>	<u>OPERATING TEMPERATURE</u>	<u>LOAD CAPACITANCE</u>	<u>MODE OF OPERATION</u>	<u>OPTIONS</u>
A..... 100ppm / 100ppm B..... 50ppm / 100ppm C..... 50ppm / 50ppm D..... 25ppm / 100ppm E..... 25ppm / 50ppm F..... 25ppm / 25ppm G..... 10ppm / 50ppm H..... 10ppm / 25ppm I..... 10ppm / 10ppm J... Customer Specified	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	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	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	* 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



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