

Crystal Unit

Hermetical Case

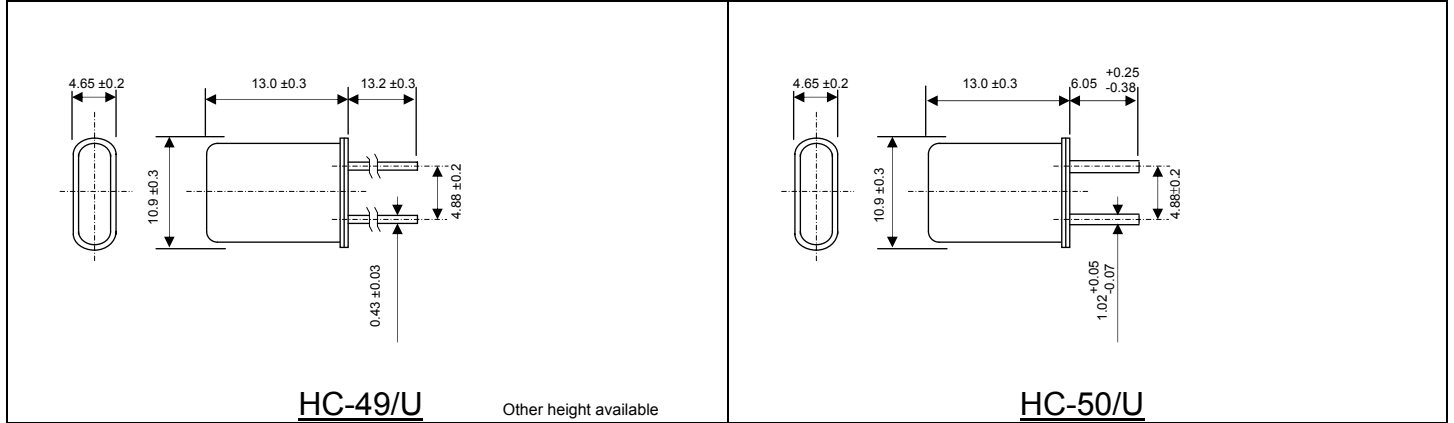
HC Series

Feature & Applications:

- Universal purposes
- Hermetical sealed RoHS Compliant
- Low cost

Outline Drawing

Dimension (Unit:mm)



General Characteristics

Parameter	Case	HC-49/U	HC-50/U
Frequency Range		1.8 MHz to 200 MHz	
Frequency Tolerance @25°C		± 30 ppm	
Frequency Drift vs Operating Temperature		± 50 ppm refer to 25°C	
Operating Temperature		-10°C to +60°C (Standard), or custom	
Storage Temperature		-20°C to +70°C	
Load Capacitance		8pF to 33pF or Series (∞)	
Equivalent Series of Resistance		see Table 1	
Shunt Capacitance		5pF max.(≤18MHz)	7pF max. (>18MHz)
Drive Level		200μW max (≤5MHz)	100μW max (>5MHz)
Insulation Resistance		500MΩ min / 100VDC	
Aging @25°C		±5ppm per year	

Part Number Guide:

X	-	13.1465	-	S32	-	18	-	50	-	100A	-	40	-	100	-	A1	-	5	-	N
Xtal		Frequency		Case Type		CL		Freq.Tol		Drift/Temp		ESR		DL		Osc.Mode		Shunt Cap		Option
		(MHz)		U=49U H13.5mm		18=18pF		(ppm)		(ppm)		(Ω max)		(μWmax)		A1=Fund.		(pFmax)		N= None
						00=∞				A=-10~+60°C						A3=3 O/T				LL2.8=Lead Length
										B=-20~+70°C										TR=Tape&Reel
																				TA=Tape&Ammo
																				G=RoHS compliant

TABLE 1

Equivalent Series of Resistance Table

Case	Vibration	HC-49/U	HC-50/U
Frequency	Mode	ΩMax	ΩMax
1.0-1.8MHz	F	3000	-
1.8-2.00MHz	F	500	-
2.01-2.399MHz	F	450	-
2.4-2.99MHz	F	300	-
3.0-3.5MHz	F	150	-
3.5-3.99MHz	F	90	-
4.0-4.99MHz	F	80	-
5.0-5.99MHz	F	70	-
6.0-6.99MHz	F	60	-
7.0-7.99MHz	F	50	-
8.0-9.99MHz	F	40	40
10-13.99MHz	F	35	35
14-23.99MHz	F	25	25
24-25.0MHz	F/3	25/50	25/50
25-30.0MHz	F/3	25/50	25/50
30-75.0MHz	3	50	50
75-125.0MHz	5	80	80
125-150MHz	5	100	100
150-200MHz	5	120	120

Other combination is available