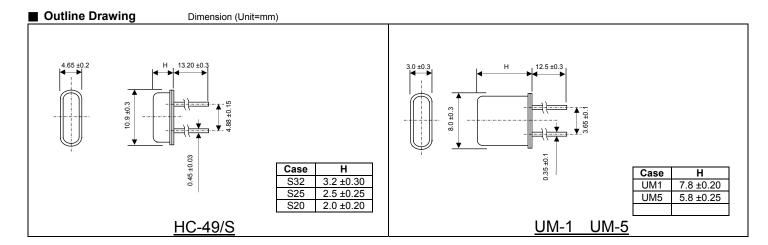
Crystal Unit

Hermetical Case HC Series

Feature & Applications:

- Universal purposes
- Hermetical sealed RoHS Compliant
- Low cost



■ General Characteristics

- Ocheral Oharacteristics						
Parameter Case	HC-49/S	UM-1	UM-5			
Frequency Range	3.5 MHz to 110 MHz	200MHz				
Frequency Tolerance @25°C	± 30 ppm	±10 ppm				
Frequency Drift vs Operating Temperature	± 50 ppm refer to 25°C	±10 ppm refe	er 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)	100μW	√ max			
Insulation Resistance	500MΩ min / 100VDC					
Aging @25°C	±5ppm per year					

Part Number Guide:

<u>X</u> -	<u>13.1465</u>	- <u>S32</u>	- <u>18</u> -	<u>50</u> -	<u> 100A</u> -	<u>40</u> -	<u>100</u>	-	<u>A1</u> -	<u>5</u> -	<u>N</u>
Xtal	Frequency	Case Type	CL	Freq.Tol	Drift/Temp	ESR	DL		Osc.Mode	Shunt Cap	Option
	(MHz)	S32=49/S H:3.2mm	18=18pF	(ppm)	(ppm)	$(\Omega \max)$	(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

IADLE I	Equivale	nt Series of Resistance Table		
Case	Vibration	HC-49/S	UM-1	UM-5
Frequency	Mode	ΩΜαχ	ΩΜαχ	ΩΜαχ
1.0-1.8MHz	F	-	-	-
1.8-2.00MHz	F	-	-	-
2.01-2.399MHz	F	-	-	-
2.4-2.99Mhz	F	-	-	=
3.0-3.5MHz	F	-	-	=
3.5-3.99MHz	F	150	-	-
4.0-4.99MHz	F	120	-	=
5.0-5.99MHz	F	100	-	=
6.0-6.99MHz	F	80	-	=
7.0-7.99MHz	F	80	-	-
8.0-9.99Mhz	F	70	-	-
10-13.99MHz	F	50	30	30
14-23.99MHz	F	40	25	25
24-25.0MHz	F/3	40/80	20/40	20/40
25-30.0MHz	F/3	40/80	20/40	20/40
30-75.0MHz	3	80	40	40
75-125.0MHz	5	-	50	50
125-150MHz	5	-	60	60
150-200MHz	5	-	80	80