

SMD Crystal Unit

Hermetical Case

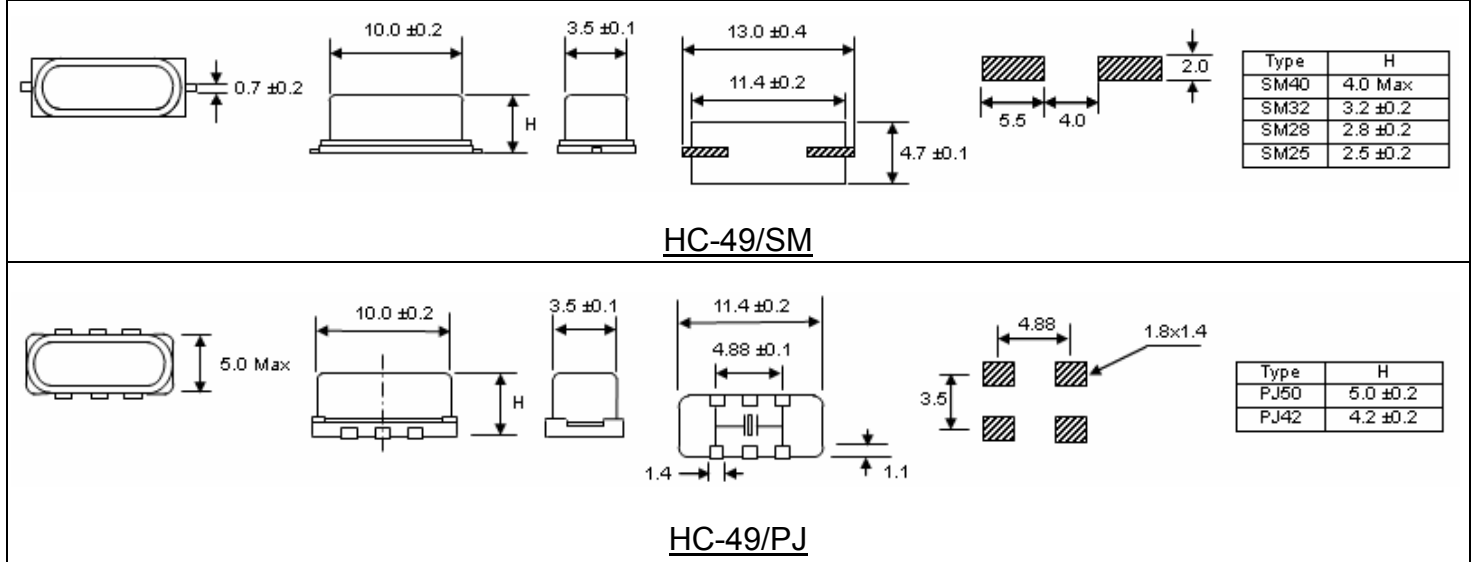
HC-49 SM PJ Series

Feature & Applications:

- Surface Mountable
- Supersede with popular molded types
- Low cost

Outline Drawing

Dimension (Unit=mm)



General Characteristics

Parameter	Case	HC-49/SM	HC-49/PJ
Frequency Range		3.5 MHz to 70 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	
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	

TABLE 1

Equivalent Series of Resistance Table

Frequency	Case	Vibration Mode	49SM ΩMax	49PJ ΩMax
3.5-3.99MHz		F	150	150
4.0-4.99MHz		F	120	120
5.0-5.99MHz		F	100	100
6.0-6.99MHz		F	80	80
7.0-7.99MHz		F	80	80
8.0-9.99MHz		F	70	70
10-13.99MHz		F	50	50
14-23.99MHz		F	40	40
24-25.0MHz		F/3	40/80	40/80
25-30.0MHz		F/3	40/80	40/80
30-75.0MHz		3	80	80

Part Number Guide:

X - 13.1465 - SM40 - 18 - 50 - 100A - 40 - 100 - A1 - 5 - N

Xtal	Frequency (MHz)	Case Type	CL	Freq.Tol (ppm)	Drift/Temp (ppm)	ESR (Ω max)	DL (μWmax)	Osc.Mode	Shunt Cap (pFmax)	Option
		SM40=49/SM H:4.0mm	18=18pF 00=∞		A=-10~+60°C B=-20~+70°C			A1=Fund. A3=3 O/T		N=None TR=Tape&Reel

Other combination is available