

MC306



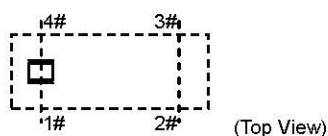
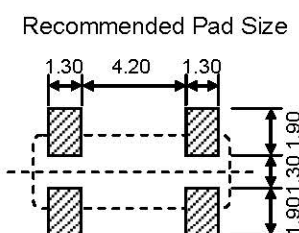
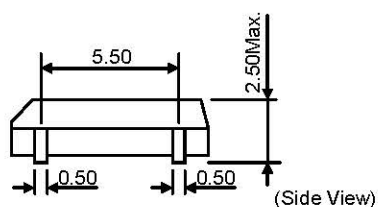
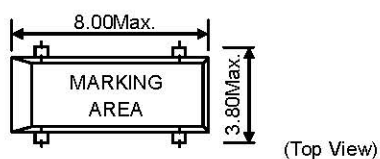
Description:

- KHz Frequency Domain
- High Frequency Accuracy
- Small Volume
- Commercial Unit
- Embedded Device
- Internet

Performance Characteristics

Parameter		MC306
Frequency Range (KHz)	F <sub>0</sub>	32.768
Vibration Mode	Mode	Fundamental
Resonance Resistance (Ω)	R <sub>r</sub>	60KΩ Max.
Frequency Tolerance (25°C)	F <sub>tol</sub>	±20×10 <sup>-6</sup>
Q Factor	Q	70,000 Typ.
Temperature Coefficient	B	-0.04×10 <sup>-6</sup> /°C <sup>2</sup>
Storage Temperature	T <sub>stg</sub>	-55°C~+125°C
Static Capacity	C <sub>0</sub>	2pF Typ.
Load Capacitance	CL	6.0pF 、 12.5pF
Insulation Resistance	IR	>500MΩ DC/100V±10V
Driving Power	DL	1 μW Max
Frequency Aging	F <sub>age</sub>	±5×10 <sup>-6</sup> /Year Max.

Outline Drawing(mm)



### Crystal Units Ordering Informationg

<b>HC-49U</b>	—	<b>C</b>	<b>20</b>	<b>S</b>	<b>S</b>	<b>A</b>	—	<b>1.8432</b>
Package	Operating Temperature range	Load Capacitance	Frequency Tolerance (25°C)	Frequency Stability	Vibration Stbility	Nominal Frequency (MHz)		
HC-33U	A=0°C~+50°C	00= Cascade	N=±5×10 <sup>-6</sup>	N=±5×10 <sup>-6</sup>	A=AT-Fund	Please enter the nominal frequency		
HC-49U	B=-10°C~+60°C	06=6.0pF	O=±10×10 <sup>-6</sup>	O=±10×10 <sup>-6</sup>	B=BT-Fund			
HC-49UX	C=-20°C~+70°C	08=8.0pF	P=±15×10 <sup>-6</sup>	P=±15×10 <sup>-6</sup>	D=DT Cut			
HC-49H	G=-40°C~+85°C	09=9.0pF	Q=±20×10 <sup>-6</sup>	Q=±20×10 <sup>-6</sup>	N=NT Cut			
HC-49S	Q=-40°C~+125°C	10=10pF	S=±30×10 <sup>-6</sup>	S=±30×10 <sup>-6</sup>	X=X Cut			
HC-49SU	H=-55°C~+85°C	12=12pF	T=±50×10 <sup>-6</sup>	T=±50×10 <sup>-6</sup>	TA=AT-3 <sup>RD</sup>			
HC-49SN	J=-55°C~+125°C	16=16pF		U=±100×10 <sup>-6</sup>	FA=AT-5 <sup>TH</sup>			
HC-49SA		18=18pF			SA=AT-7 <sup>TH</sup>			
HC-49SB		20=20pF						
HC-49XA		30=30pF						
HC-49XB		These are the normal load capacitance values.	If there are special requirements can choose high precision.	Temperature stability is selected according to the corresponding description page.	The vibration mode can be selected according to the corresponding description page.		Select according to the optional frequency range of the corresponding description page	
X16F	Special requirements can be selected according to the temperature range and temperature stability.	Note: calculate the value of load capacitance according to the actual application circuit (see instructions for calculation).						
X21F								
X25F								
X32F								
X53F								
X53T								
X63F								
X75F								
UM-1								
UM-5								

<b>DT-26</b>	—	<b>C</b>	<b>06</b>	<b>Q</b>	—	<b>32.768</b>
Package	Operating Tempereare range	Load Capacitance	Frequency Tolerance (25°C)	Nominal Frequency (KHz)		
DT-26	A=0°C~+50°C	06=6.0pF	N=±5×10 <sup>-6</sup>	Please enter The nominal frequency		
DT-38	B=-10°C~+60°C	12=12.5pF	O=±10×10 <sup>-6</sup>			
FC12	C=-20°C~+70°C		P=±15×10 <sup>-6</sup>			
FC135	G=-40°C~+85°C		Q=±20×10 <sup>-6</sup>			
SSP-T7						
MC306						