



HC-49UM



Features



- External dimensions: 13.46 x 4.65 x 3.68mm.
- Frequency range: 1.5MHz ~ 50MHz.
- Through hole type crystal units.
- A great number of standard frequencies.
- High frequency pullability and low equivalent series resistance.
- Highly mass production capability.
- Applications: PC, STB, LCDM and Cable Modem.

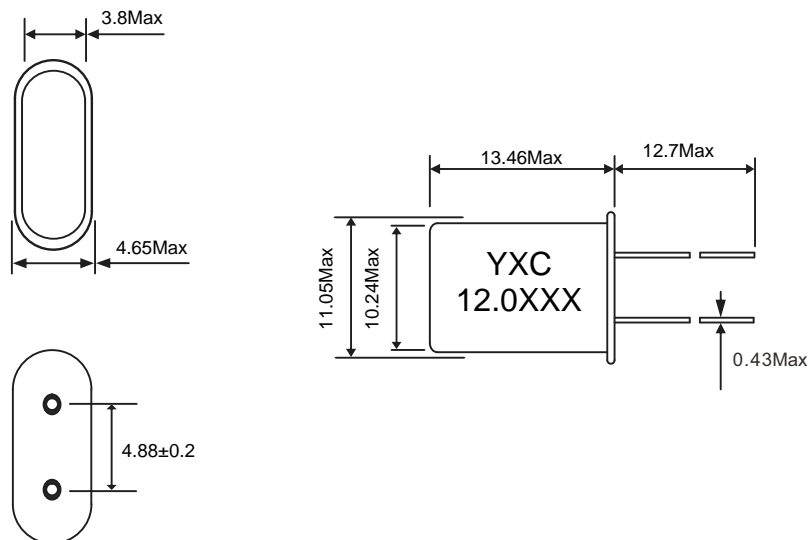
Electrical Specifications

Item / Type	HC-49UM
Nominal Frequency Range	1.5 ~ 50MHz
Vibration Mode	AT Fundamental
Load Capacitance	12pF, 20pF, or specify
Frequency Tolerance (at 25 °C)	±10 ppm, ± 20 ppm, or specify
Frequency Versus Temperature Characteristics	± 20 ppm, or specify
Operating Temperature	- 20 ~ + 70 °C , - 40 ~ + 85 °C , or specify
Storage Temperature	-40 ~ +85 °C , or specify
Shunt Capacitance	7 pF Max.
Level of Drive	0.1~ 500 μW (100μ W typical)
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

Equivalent Series Resistance(ESR)

Fundamental			
1. 500-1. 900MHz	500 Ω Max.	10. 000-29. 900MHz	25 Ω Max.
2. 000-2. 900MHz	400 Ω Max.	30. 000-50. 000MHz	25 Ω Max.
3. 200-3. 900MHz	200 Ω Max.		
4. 000-4. 900MHz	150 Ω Max.		
5. 000-6. 900MHz	70 Ω Max.		
7. 000-9. 900MHz	35 Ω Max.		

Dimensions



Units: mm



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★ PART NUMBER GUIDE *e.g. X49UD12MSD2SC* *HC-49UM=11.05 × 4.65 DIP SEAM TYPE*

Quartz Crystal Resonator	Dimensions	Frequency (Hz)	Load Capacitance (pF)	Frequency Stability Overall (ppm)	Pin	Material	Operating Temp. Range
X	49UD	12M	S	D	2	S	C

★ WAVE SOLDERING PROFILE

