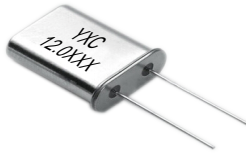


HC-49UM



Features



- External dimensions: 11.5 x 4.5 x 3.68mm.
- Frequency range: 3.579545MHz ~ 64MHz.
- Surface mount 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.

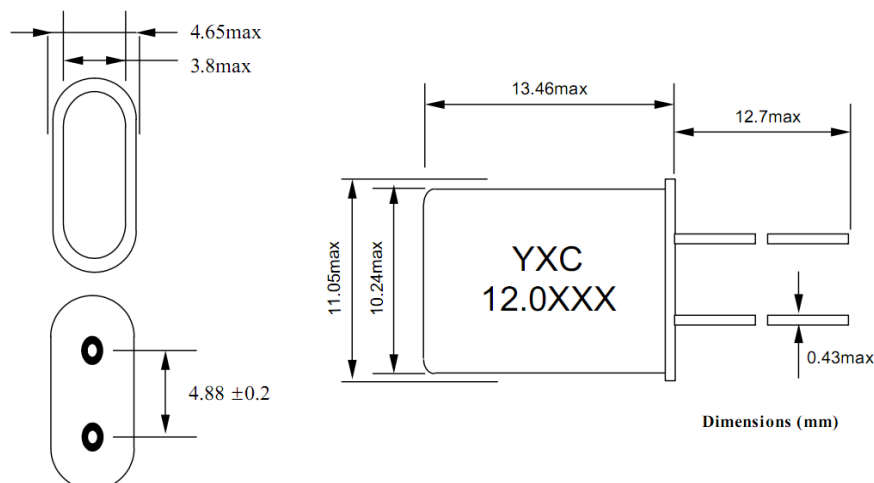
Electrical Specifications

Item / Type	HC-49UM
Nominal Frequency Range	1.8432 ~ 30MHz
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	1 ~ 500 μW (100μW typical)
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

Equivalent Series Resistance(ESR)

Fundamental	
6.000-9.999MHz	120 Ω Max.
10.000-19.999MHz	100 Ω Max.
20.000MHz-27.000MHz	80 Ω Max.
6.000-9.999MHz	120 Ω Max.
10.000-19.999MHz	100 Ω Max.
20.000MHz-27.000MHz	80 Ω Max.

Dimensions



HC-49UM

★ PART NUMBER GUIDE 部件号示例 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

Load Capacitance (Pf)	
X	7.4pF
G	12.5pF
L	9pF
M	10pF
O	12pF
P	15pF

Frequency tolerance	
B	±10PPM
D	±20PPM

Operating temperature	
C	-20~ +70°C
I	-40~ +85°C
A	-40~ +125°C
F	-40~ +105°C

★ WAVE SOLDERING PROFILE 波峰焊特性

