# Metal Can Type Crystals HC-49US Series



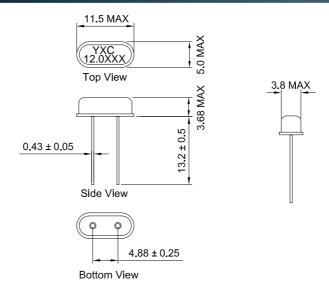
#### **Features**

- · Resistance welded type crystal units.
- · A great number of standard frequencies.
- · Higher frequency pullibility and lower equivalent series resistance.
- · Lower cost and highly mass production capability.
- · The best choice of TV, STB, LCDM and Cable Modem.
- · RoHS Compliant / Pb Free.

Electrical Specifications				
Item / Type	HC-49US			
Frequency Range	3.579545 ~ 64MHz			
Frequency Tolerance (at 25 °C)	± 20 ppm, or specify			
Frequency Stability Over Operating Temperature Range	$\pm 10$ ppm, $\pm 20$ ppm, or specify			
Operating Temperature Range	- 20 ~ +70 °C, or specify			
Shunt Capacitance (C0)	7 pF Max.			
Drive Level	1 ~ 500 μW (100 μW typical)			
Load Capacitance	16 pF, 20 pF, 30 pF, 32 pF, specify			
Aging (at 25 °C)	± 5 ppm / year Max.			
Storage Temperature Range	-20 ~ +70 °C , or speaf y			

Equivalent Series Resistance(ESR)					
Fundamental		3rd Overtone			
3.579545 ~ 4 MHz	150 Ω Max.	20 ~ 25 MHz	100 Ω Max.		
4 ~ 5 MHz	120 Ω Max.	25 ~ 64 MHz	80 Ω Max.		
5 ~ 6 MHz	100 Ω Max.				
6 ~ 7 MHz	80 Ω Max.				
7 ~10 MHz	60 Ω Max.	-			
10 ~ 27 MHz	40 Ω Max.	-			

#### **Dimensions**



Units: mm

## ★ PART NUMBER GUIDE 部件号示例 e.g. X49SD16MSB2SC

HC-49US=11.5  $\times$  5.0 SMD SEAM TYPE

Quartz Crystal Resonator	Dimensions	Frequency (Hz)		Frequency Stability Overall (ppm)	Pin	Material	Operating Temp. Range
X	49SD	16M	S	В	2	S	С

Definition	Description
Operating	<b>C</b> : -20~+70°C
Temperature Range	I : -40~+85°C
,	D: Customer specified

### ★ WAVE SOLDERING PROFILE 波峰焊特性

