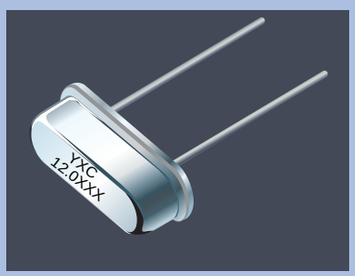
Metal Can Type Crystals HC-49US Series



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.

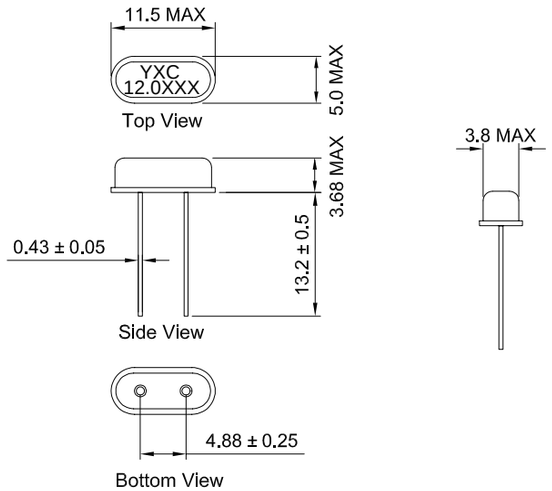
Electrical Specifications

Item / Type	HC-49US
Frequency Range	3.579545 ~ 64MHz
Frequency Tolerance (at 25 ℃)	± 20 ppm, or specify
Frequency Stability Over Operating Temperature Range	±10 ppm, ± 20 ppm, or specify
Operating Temperature Range	- 20 ~ +70 ℃, 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 ℃)	± 5 ppm / year Max.
Storage Temperature Range	-20 ~ +70 ℃, or specify

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.		

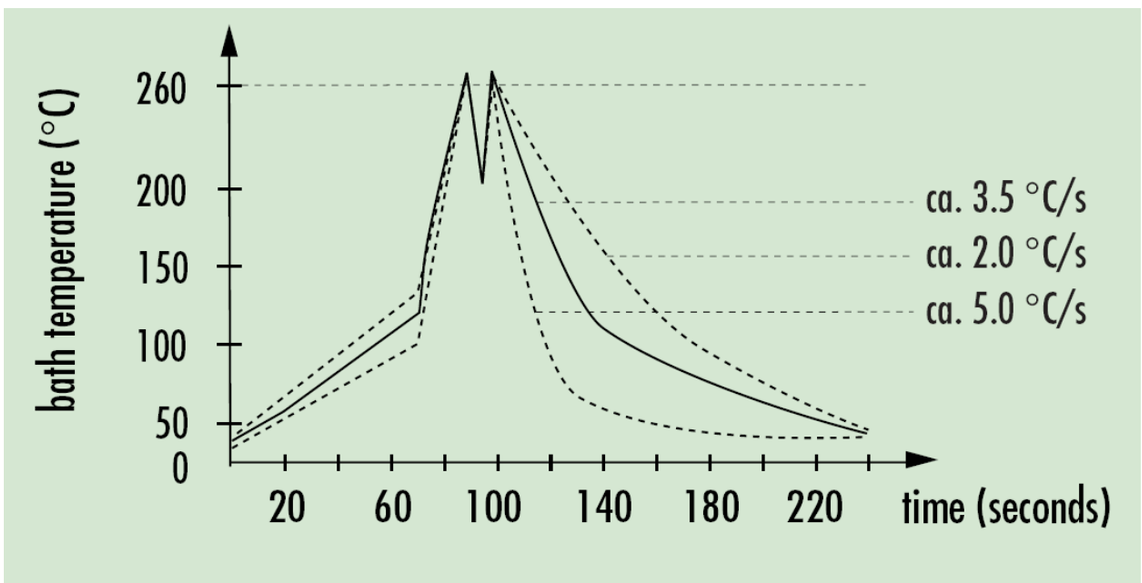
Dimensions



Units: mm

★ PART NUMBER GUIDE 部件号示例 *e.g. X49SD16MSB2SC* *HC-49US=11.5 × 5.0 SMD SEAM TYPE*

Quartz Crystal Resonator	Dimensions	Frequency (Hz)	Load Capacitance (Pf)	Frequency Stability Overall (ppm)	Pin	Material	Operating Temp. Range
X	49SD	16M	S	B	2	S	C

Definition	Description
Operating Temperature Range	**C**: -20~+70℃
	I : -40~+85℃
	D: Customer specified

★ WAVE SOLDERING PROFILE 波峰焊特性