

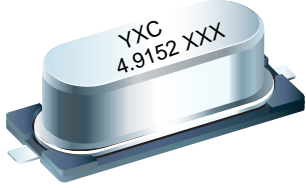


给您一颗快乐的“芯”！

# HC-49SMD X49SM49152MSD2SC-1



## Features



- External dimensions: 11.4 x 4.8 x 3.8 mm.
- Frequency range: 3.2768MHz ~ 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.

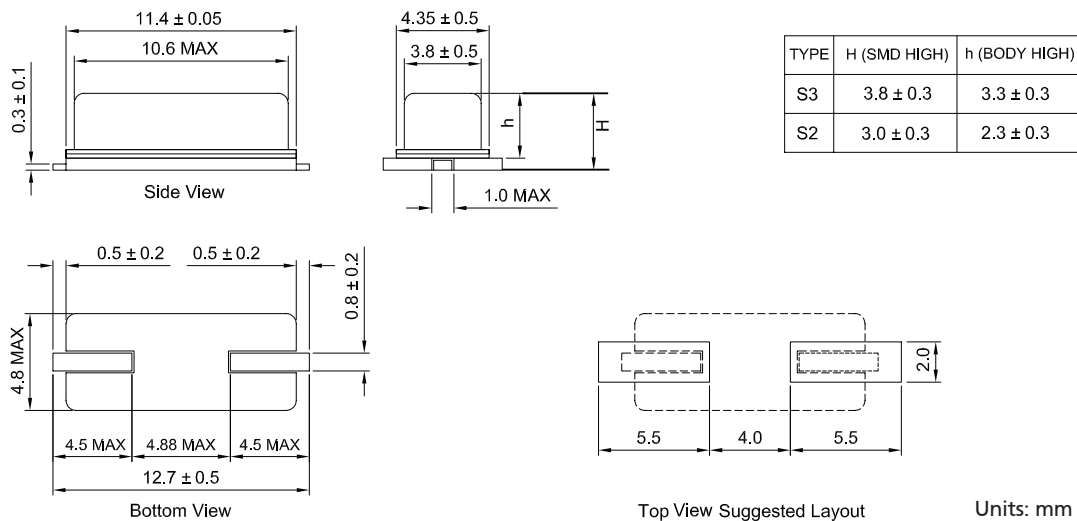
## Electrical Specifications

Item / Type	X49SM49152MSD2SC-1
Nominal Frequency Range	4.9152Mhz
Vibration Mode	AT Fundamental
Load Capacitance	20pF
Frequency Tolerance (at 25 °C)	±20 ppm
Frequency Versus Temperature Characteristics	± 20 ppm
Operating Temperature	- 20 ~ + 70 °C
Storage Temperature	- 40 ~ + 85 °C
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		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 ~ 10MHz	60 Ω Max.		
10 ~ 27MHz	40 Ω Max.		

## Dimensions



Units: mm



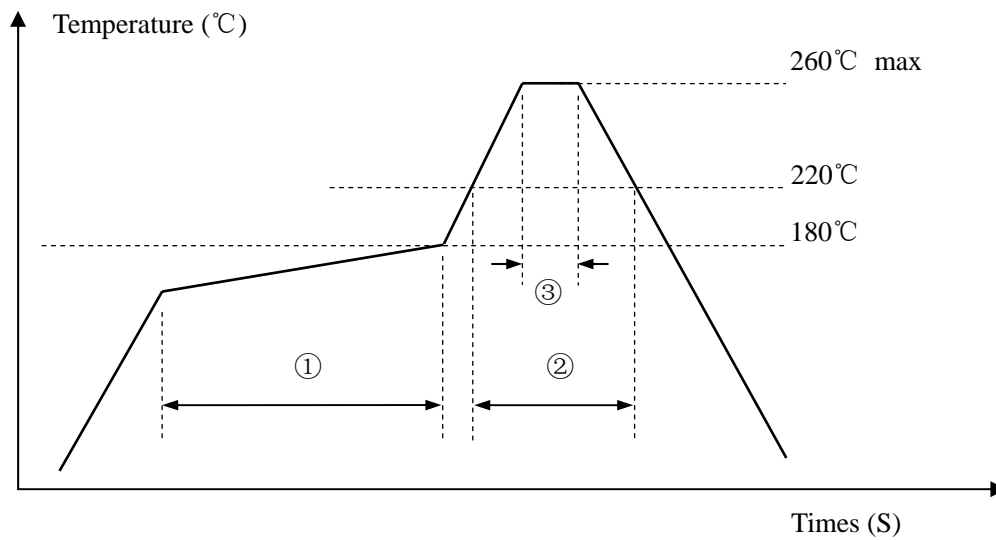
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★ PART NUMBER GUIDE 部件号示例 e.g. X49SM49152MSD2SC-1 HC-49SMD=11.4×4.35 SMD SEAM TYPE

Quartz Crystal Resonator	Dimensions	Frequency (Hz)	Load Capacitance (Pf)	Frequency Stability Overall (ppm)	Pin	Material	Operating Temp. Range
X	49SM	4.9152M	S	D	2	S	C

★ REFLOW SOLDERING PROFILE 回流焊特性



Pb free reflow A	①	Preheat	160~180°C	120sec. max
	②	Primary heat	220°C	60sec. max
	③	Peak	260°C	10sec. max.