

MHz SMD CRYSTAL 4 PADS HOLD TYPE HC-49SX XH SERIES

MAIN FEATURE

- MHz SMD Crystal L12.5*W4.95*H4.0mm 4 Pads
- Resistance Weld Metal Case, Hold Type HC-49SX,
- Low Profile and Short Lead time
- RoHS/RoHS III Compliant, RoHS Annex III Lead Exemption (exempt per RoHS EU 2015/863)
- Moist are Sensitivity Level (MSL) Level 1
- Excellent Aging and Wide Frequency Range
- 4 Pad Fit EPSON 406 & 506 Footprint Surface Mount
- Replace MHz SMD Plastic Crystal, YQ/CCME series



Image shown is a representation only. Exact specifications should be obtained from the product dimension.

APPLICATION

- Microcontroller Systems, Microprocessors, Communication Interfaces,
- Digital Signal Processors (DSPs), Test And Measurement Equipment

HOW TO ORDER

Please follow up Part Code Series Guide and Parametric Code Guide for your RFQ.

For Example: Part Code + Parametric Code (Optional) for your RFQ and Order

Part Code: XH10M00000S418 + Parametric Code: A30-18-50-40-40

PART CODE GUIDE

RFQ
Request For Quotation

CODE	NAME	KEY SPECIFICATION OPTION
XH	Series Code	MHz SMD Crystal L12.5*W4.95*H4.0mm 4 Pads Hold Type HC-49SX
10M0	Frequency Range Code	10M0: 10MHz, or Specify Frequency Range From 3.072 ~100MHz
0000S	Internal Control Code	Special letter A~Z , a~z or digits (1-9)
418	Parameters code	Special Parameters Code letter A~Z, a~z or digits (1-9)

MHZ SMD CRYSTAL 4 PADS HOLD TYPE HC-49SX XH SERIES

PARAMETRIC CODE GUIDE

For Example: A30-18-50-40-40

CODE	NAME	KEY PARAMETRIC OPTION
A	Mode of Vibration Code	A: Fundamental; C: 3 rd Overtone; D: 5 th Overtone;
30	Frequency Tolerance	10: +/-10ppm; 15: +/-15ppm; 20: +/-20ppm; 25: +/-25ppm; 30: +/-30ppm or Specify Value
-18	Load Capacitance	6: 6pF; 7: 7pF; 8: 8pF; 9: 9pF; 10: 10pF; 12.5: 12.5pF; 16: 16pF; 18: 18pF; 20: 20pF; 22: 22pF; 30: 30pF or Specify CL Value
-50	Frequency Stability	30: +/-30ppm; 50: +/-50ppm or Specify Value
-40	Operating Temp. Range	40: -40° C ~+85° C (Standard) or Specify Value
-40	Equivalent Series Resistance	200: 200Ω Max; 100: 100Ω Max; 80: 80Ω Max; 50: 50Ω Max; 40: 40Ω Max; 30: 30Ω Max or Specify value, See Table 1

Table 1

FREQUENCY RANGE	MODE OF VIBRATION	ESR (Ω) MAX
3.072MHz ≤ F0 ≤ 4.000MHz	Fundamental	< 200
4.000MHz < F0 ≤ 6.000MHz	Fundamental	< 80
6.000MHz < F0 ≤ 8.000MHz	Fundamental	< 50
8.00MHz < F0 ≤ 16.000MHz	Fundamental	< 40
16.00MHz < F0 ≤ 48.00MHz	Fundamental	< 30
24.00MHz < F0 ≤ 40.00MHz	3rd Overtone	< 100
40.00MHz < F0 ≤ 80.00MHz	3rd Overtone	< 50
50.00MHz ≤ F0 ≤ 100.00MHz	5th Overtone	< 100

MHZ SMD CRYSTAL 4 PADS HOLD TYPE HC-49SX XH SERIES

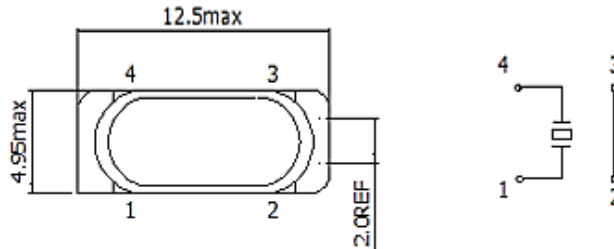
GENERAL SPECIFICATION

PARAMETER	SYMBOL	VALUE			UNIT	CONDITION
		MIN.	TYPE	MAX.		
Frequency Range	F0	3.072	-	100.00	MHz	Specify
Mode of Vibration Code		Fundamental				Optional: 3rd OT Or 5th OT
Frequency Tolerance	$\Delta F/F0$	± 10	± 30	± 30	ppm	at 25°C ± 3 °C
Load Capacitance	CL	6	20	Series	pF	Customer specified
Frequency Stability	Tc	± 30	± 50	± 50	ppm	Customer specified
Operating Temp. Range	TOPR	-40	-	+85	°C	Customer specified
Storage Temp. Range	TSTG	-40	-	+85	°C	
Equivalent Series Resistance	ESR	See Table 1			Ω	Customer specified
Drive Level	DL	-	-	100	μW	
Insulation Resistance	IR	500	-		m Ω	At 100VDC
Shunt Capacitance	C0	-	-	7.0	pF	
Aging per year	Fa	-5	-	+5	ppm	1st Year
Package (SPQ)	T	1000pcs				Tape/Reel
REACH/RoHS Status	LH	RoHS/RoHS III Compliant, RoHS Annex III Lead Exemption (exempt per RoHS EU 2015/863)				
Moist are Sensitivity Level	MSL	1				J-STD-033

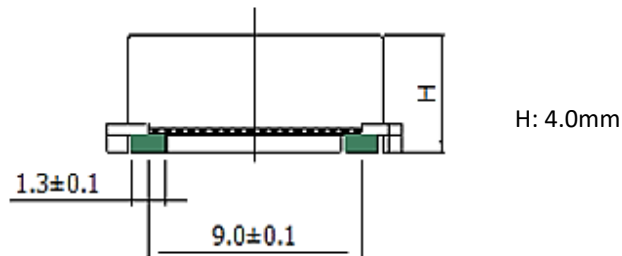
MHZ SMD CRYSTAL 4 PADS HOLD TYPE HC-49SX XH SERIES

DIMENSION (Unit: mm)

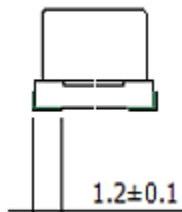
Top View



Bottom View



Side View



Solder Pattern

