HC-49SSM

SMD Crystal

Size, mm
12.3 x 4.5 x 4.0

Frequency Stability
±30 PPM

Temperature Range
-10°C to 70°C

Frequency Range
3.5-66.0 MHz

Features
- Meets NEL requirements for product reliability
- The HC-49SSM has a resistance welded reduced height holder
- Frequency range 3.500 MHz to 66.0 MHz
- Special frequencies available

NEL FREQUENCY CONTROLS, INC.

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SMD Crystal
HC-49SSM

Frequency Range: 3.5 MHz to 66.0 MHz

Creating a Part Number

HC-49SSM - 10.00 - 20 - F - A - XX

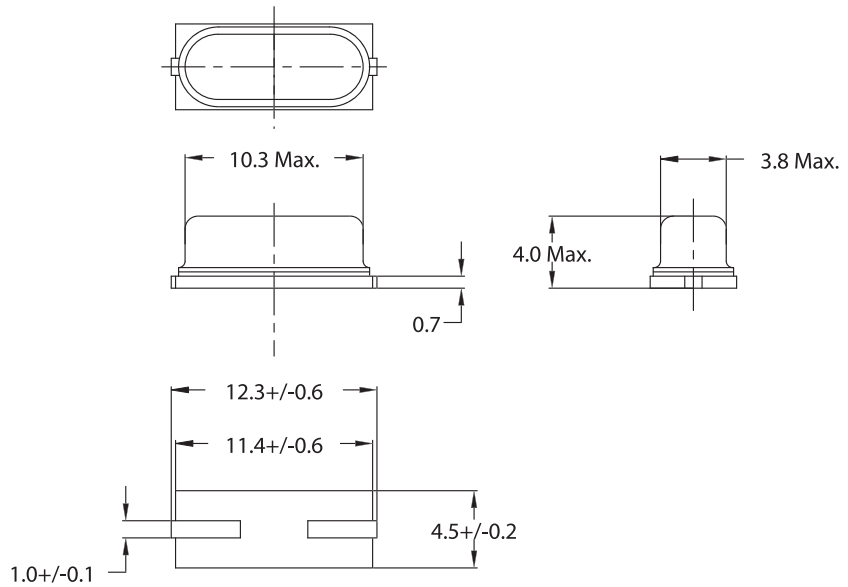
Holder Type
Frequency (MHz)
Load Capacitance
XXpF; S: Series Resonant
Mode of Operation
F: AT-Cut Fundamental
B: BT-Cut Fundamental
T: 3rd Overtone

Available Options
Blank = None (std)
S = Insulator Tab
P = Third Lead
L = Custom Lead Length
TR = Tape & Reel
Frequency Tolerance/Temperature Stability at 25° (Ref to 25°C)
A: ±50 ppm/±50 ppm -10°C to 70°C
B: ±30 ppm/±50 ppm -10°C to 70°C
C: ±50 ppm/±100 ppm -10°C to 70°C

Electrical Specifications

Frequency Range (F_O)	3.500 MHz to 66.000 MHz	
Storage Temperature Range (T_{STG})	-40°C to 85°C	
Shunt Capacitance (C_O)	7 pF Max.	
Load Capacitance (C_L)	10 to 32 pF or Series Resonant	
Insulation Resistance	500 Megaohms Minimum at 100 V_{DC}	
Drive Level	1 mWatts Max.	
Aging (at 25°C)	±5 ppm/year Max.	
Equivalent Series Resistance	Frequency Range	E.S.R. (Ω) Max
Mode: Fundamental/AT	3.579 to 4.999 MHz	200
Mode: Fundamental/AT	5.000 to 5.999 MHz	150
Mode: Fundamental/AT	6.000 to 7.999 MHz	120
Mode: Fundamental/AT	8.000 to 8.999 MHz	90
Mode: Fundamental/AT	9.000 to 9.999 MHz	80
Mode: Fundamental/AT	10.000 to 14.999 MHz	70
Mode: Fundamental/AT	15.000 to 15.999 MHz	60
Mode: Fundamental/AT	16.000 to 23.999 MHz	50
Mode: Fundamental/AT	24.000 to 30.000 MHz	40
Mode: 3rd Overtone/AT	30.000 to 66.000 MHz	100

Drawing Specifications



Dimensions shown in millimeters.