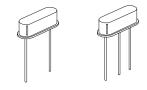


Pletronics, Inc.

19013 36th Ave. W, Suite H • Lynnwood, WA 98036 USA Manufacturer of High Quality Frequency Control Products

LP Crystal Series

- HC-49/US Low Profile Metal Thru-Hole Crystals
- Available in 3 heights, LP49: 3.5mm, LP24: 2.5mm, LP21: 2.1mm and with 3rd Case Pin: 3LP49



3.200 MHz - 70.000 MHz

Standard Specifications

Calibration Frequency Tolerance at 25°C Operating Temperature Range (OTR) Frequency Stability (FS) over OTR Drive Level

Aging at 25°C Shunt Capacitance

Pullability

± 30 PPM is standard, tighter tolerances available

0 to +70°C is standard, but can be extended to -40 to +85°C

± 50 PPM is standard, tighter tolerances available

50 μW is standard, customer may specify

± 5 PPM per year is standard, customer may specify ± 1 PPM

7 pF maximum

May be specified by customer in terms of frequency shift required over a certain range of load capacitance (e.g. +100 PPM from CL=12 to CL=18 pF) or as motional capacitance (fF)

Portions of the part number that appear after the frequency may not be marked on part (C of C provided) LP49 B E - xx - 70.0M - IN XXX (Internal Code or blank) **Options** Model (Height) -IN = Insulator LP49: 3.56mm TR = Paper Tape & Reel LP24: 2.5mm PN = Put on Pads LP21: 2.1mm Frequency in MHz 3LP49: case pin, 3.56mm **Load Capacitance** Parallel Resonance in pF (≥ 10 pF) SR = Series Resonance Cal Tol / Freq Stability **Temperature Range** Blank = 30/50B = 30/30Blank: 0 to +70°C C = 15/30E: - 40 to +85°C

Part Numbering Guide

	ESR Values	
Oscillation Mode	Frequency Range (MHz)	Maximum ESR (Ohms)
Fundamental AT Cut	3.200 - 4.999 5.000 - 7.999 8.000 - 11.999 12.000 - 30.000	300 120 70 50
3rd Overtone AT Cut	25.000 - 70.000	100

Consult factory for lower ESR

Consult factory for available frequencies and specs.

H: - 20 to +70°C

Not all options available for all frequencies. A special part number may be assigned.

Mechanical: inches (mm)

D = 10/20 (consult factory)

not to scale

3LP49

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.

