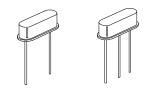
Pletronie, Inc. 19013 36th Ave. West • Suite H • Lynnwood, WA 98036, USA

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

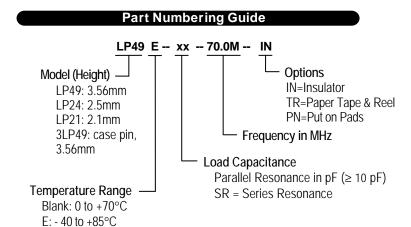
 \pm 50 PPM is standard, tighter tolerances available

50 mW is standard, customer may specify

 \pm 5 PPM per year is standard, customer may specify \pm 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 (f F)



	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

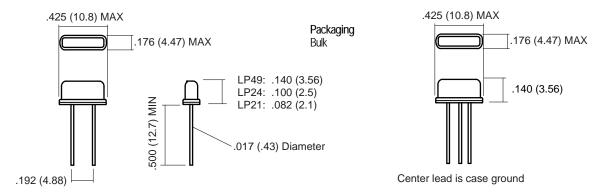
Consult factory for available frequencies and specs. Not all options available for all frequencies. A special part number may be assigned.

Mechanical: inches (mm)

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.



May 2002