

L1



**LOW PROFILE
QUARTZ CRYSTAL**

The L1 series provides a broad range of frequencies, and a low profile height, packaged in a robust, high reliability enclosure. The L1 has an extremely low cost with excellent electrical parameters.

Precision Devices Inc.

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ELECTRICAL PERFORMANCE (Ta=25°C)

Parameter	Standard Observed
Mechanical Shock	MIL-STD-202 Method 213, Condition C
Vibration	MIL-STD-202 Method 201, 204, and 214
Hermeticity	MIL-STD-202, Method 112
Solderability	IPC/EIA-STD-002A

PARAMETER	MINI-MUM	MAXI-MUM	UNITS
Center Frequency	8.000	100.000	MHz
Oscillation Mode	Fundamental and 3rd Overtone		
Maximum Series Resistance	20.000	100.000	Ohms
Frequency Stability at +25°C (See Note 2) ±50.0ppm Typ.	±10.00	±100.00	ppm
Frequency Stability Over Temperature ±50.0ppm Typ.	±10.00	±100.00	ppm
Operating Temperature Range (See Note 2)	-20	70	°C
Storage Temperature Range	-55	125	°C
Drive Level	100.0uW		
Typical	10.0nW	1.0mW	
Seal Method	Resis- tance Weld		
Shunt Capacitance	1.000	7.000	pF
Motional Capacitance	Customer Request		
Load Capacitance	Series	40.000	pF
Aging per year	±2.0	±5.0	ppm

