## U1

## Precision Devices Inc.

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## STANDARD QUARTZ CRYSTAL

The UM-1 series provides a broad range of frequencies, and a small profile, packaged in a robust, high reliability enclosure. The UM-1 has an extremely tight tolerance, and excellent mechanical characteristics.

## **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

	MINI-	MAXI-	
PARAMETER	MUM	MUM	UNITS
Center Frequency	8.000	350.000	MHz
Oscillation Mode Fundamental, 3 <sup>rd</sup> , 5 <sup>th</sup> , and 7 <sup>th</sup>			
Overtone			
Maximum Series Resistance (See Note 3)	20.0	100.0	Ohms
Frequency Stability at +25°C (See Note 2)			
±50.0ppm Typ.	±5.0	±100.0	ppm
Frequency Stability Over Temperature			
±50.0ppm Typ.	±5.0	±100.0	ppm
Operating Temperature Range (See Note 2)	-20	+70	Ŝ
Storage Temperature Range	-55	+125	°C
Drive Level 100.0uW			
Typical	1.0uW	1.0mW	
Seal Method Resis-			
tance Weld			
Shunt Capacitance	1.0	7.0	pF
Motional Capacitance	Customer Request		
Load Capacitance	Series	40.0	pF
Aging per year	±1.0	±5.0	ppm



