

# HC-37/U (TO-8)

# Precision Devices Inc.

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## PDI VOLTAGE CONTROLLED OSCILLATORS

- HC-37/U (TO-8)  
Cold Weld SC-cut Quartz Crystal
- Available in the standard HC-37/U package and in the Low Profile package

Parameter	Standard Observed		
Mechanical Shock	MIL-STD-202 Method 213		
Vibration	MIL-STD-202 Method 201, 204 and 214		
Hermeticity	MIL-STD-202 Method 112		
Solderability	IPC/EIA-STD-002A		
Parameter	Minimum	Maximum	Unit
Nominal Frequency	4.0	6.0	MHz
Overtone	3	3	
Series Resistance	120	160	Ohms
Calibration	+/-1.5	+/-5	ppm
Turning point	+60	+100	°C
Operating Temperature Range	-55	+125	°C
Drive Level	10	200	µW
Shunt Capacitance	2	4	pF
Motional Capacitance	0.100	0.200	fF
Q factor	1.3	2.2	M
Load Capacitance	series	50	pF
Aging per year (after 30 days operation)	$3 \times 10^{-8}$	$1 \times 10^{-7}$	

