M1002S367
HC-49/U Crystal Resonator

FEATURES

Resistance Weld (HC49/U)
AT-Cut Fundamental
RoHS compliant.
Rugged Design to support harsh environments

APPLICATIONS

Avionics and Aerospace
Communication and Navigation
Military Radios
Instrumentation and Industrial
Test and Measurement Equipment

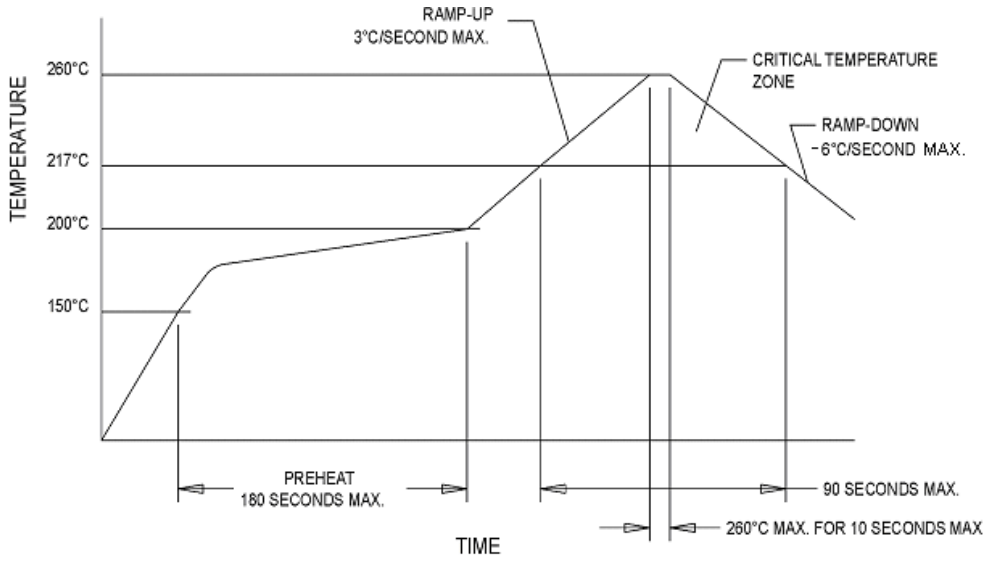
ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Mode of Oscillation			Fundamental (AT-cut)			
Frequency Range	F_0		11.059200		MHz	
Frequency Tolerance	F/F	-20		+20	ppm	@ +25°C
Frequency Stability	$\Delta F/F$	-50		+50	ppm	Over the operating temperature range
Aging		-5		+5	ppm	1st 30 days of operation.
Load Capacitance			18		pF	
Shunt Capacitance				7	pF	
ESR				30	Ω	Over the operating temperature range
Insulation Resistance	IR	500			MΩ	100 VDC
Drive Level	DL	50	100	1000	µW	

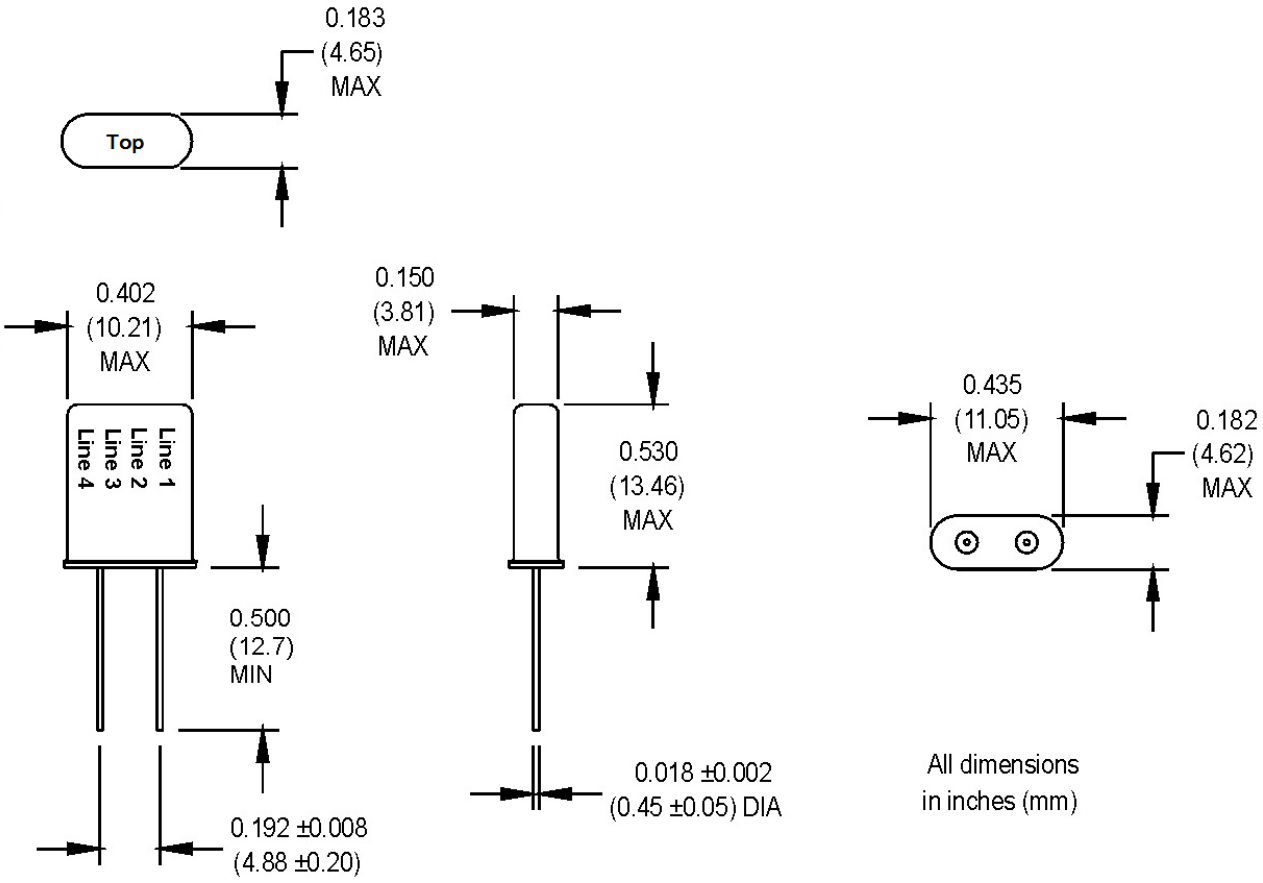
ENVIRONMENTAL CONDITIONS

Operating Temperature	TA	-55		+105	°C	
Storage Temperature	TS	-55		+125	°C	
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave) ± 5 ppm max frequency shift. ± 15 % max. ESR shift.					
Mechanical Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz) ± 5 ppm max frequency shift. ± 15 % max. ESR shift.					
Hermeticity	MIL-STD-202, Method 112 (1 x 10-8 atm cc/sec min)					
Moisture Resistance	Per MIL-STD-202, Method 106					
Solderability	Per MIL-STD-202, Method 208					
Package	HC-49/U resistance weld - RoHS compliant.					

LEAD FREE SOLDER PROFILE



MECHANICAL AND PIN OUT INFORMATION



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