

SPECIFICATION FOR 8- PIN DIP COMPATIBLE OSCILLATOR MtronPTI P/N M2006S076

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions/Notes
Frequency of Operation	F _o		16.632000		MHz	
Frequency Stability						
Frequency Stability	ΔF/F	-50		+50	ppm	Includes initial calibration tolerance and stability over operating temperature.
Aging		-3		+3	ppm	
RF Output						
Output Type		HCMOS/TTL Compatible				
Output Load				10	LS TTL	
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref. to ½ V _{dd}
Logic “1” Level	V _{OH}	90% V _{dd}			V	
Logic “0” Level	V _{OL}			10% V _{dd}	V	
Rise/Fall Time	T _R /T _F			10	nS	From 10% to 90% V _{DD}
Start-Up Time	T _{SU}			10	mS	
Pull-up (OE pin)	10kΩ resistor from V _{dd} to output enable line					Hard pull-up
Supply Voltage & Power Consumption						
Operating Voltage	V _{dd}	4.75	5.0	5.25	V	
Operating Current	I _{dd}			25	mA	

Environmental Conditions:

Operating Temperature	T _A	-40		+85	°C	Device must operate at -55°C without regard to frequency stability specification.
Storage Temperature	T _S	-55		+125	°C	
Shock	1000 G's, 0.35 ms, ½ sine wave, 3-shocks in each plane.					
Vibration	10-55 Hz, 0.060 D.A., 55 Hz to 2 kHz, 35 G's. for a 12 hr. duration.					
Temperature Cycle	0°C to +120°C, 3 cycles, hrs. max. each. Maximum of ± 5 ppm (ref. to +25°C, ± 2°C) frequency shift allowed					
Humidity	85% R.H. @ +85°C for 250 hrs.					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)					
Solderability	Per EIAJ-STD-002					
Max. Wave Soldering Conditions	+260°C for 10 secs.					
Package Type	8-Pin DIP compatible resistance weld. SnPb (63/37) tinned leads.					

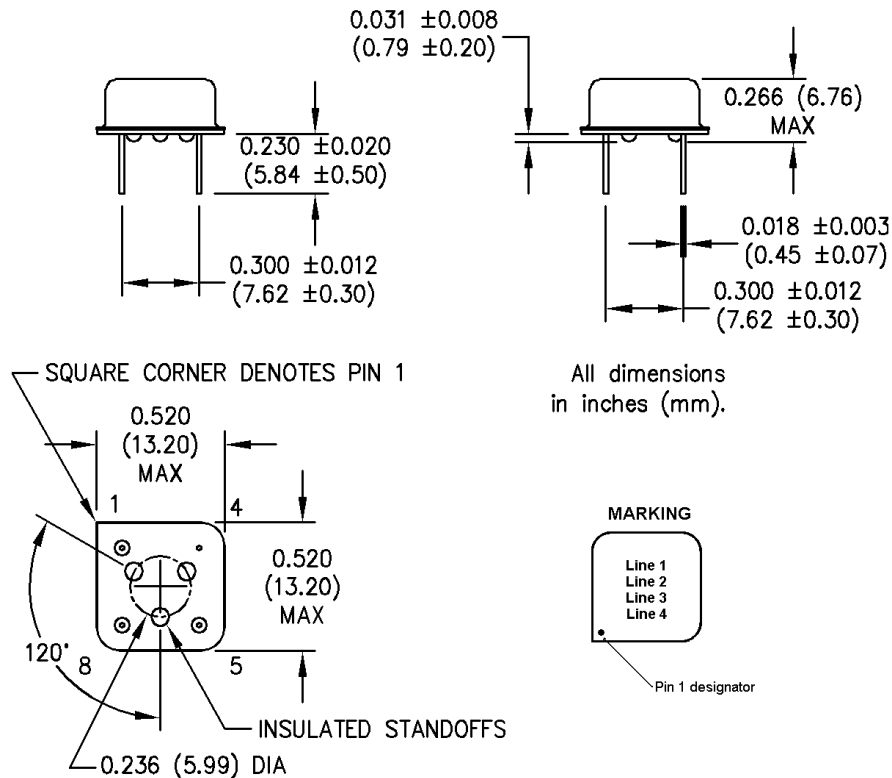
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Dimensions, Marking, and Pin Out Information:

Pad	Function
1	No Connect
2	Ground / Case
3	Output
4	+V _{DD}

Part Marking	
Line 1	M2006S076
Line 2	16.632000 MHz
Line 3	MtronPTI
Line 4	yyww

Legend	
yy	Year
ww	Work Week



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
11/18/14	0	MM	Original release.
12/11/14	A	MM	Removed customer part number line.
02/05/15	B	MM	Added (OE pin) pull-up.