

# SPECIFICATION FOR 8- PIN DIP COMPATIBLE OSCILLATOR MtronPTI P/N M2006S067

### **Electrical Specifications:**

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions/Notes
Frequency of Operation	Fo		16.632000		MHz	
Frequency Stability	∆F/F	-50		+50	ppm	Includes initial calibration tolerance and stability over operating temperature.
Operating Temperature	TA	-40		+85	Ŷ	Device must operate at -55°C without regard to frequency stability specification.
Storage Temperature	Ts	-55		+125	°C	
Aging		-3		+3	ppm	1st Year
Operating Voltage	V <sub>dd</sub>	4.75	5.0	5.25	V	
Operating Current	I <sub>dd</sub>			25	mA	
Output Type		HCM	IOS/TTL Compa	atible		
Output Load				10	LS TTL	
Symmetry (duty cycle)	T <sub>DC</sub>	45		55	%	Ref. to 1/2 V <sub>dd</sub>
Logic "1" Level	Vон	90% V <sub>dd</sub>			V	
Logic "0" Level	Vol			10% V <sub>dd</sub>	V	
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>			10	nS	From 10% to 90% V <sub>DD</sub>
Start-Up Time	Tsu			10	mS	

#### **Environmental Conditions:**

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.			
Tomporatura Cuala	0°C to +120°C, 3 cycles, hrs. max. each. Maximum of ± 5 ppm (ref. to +25°C, ± 2°C)			
Temperature Cycle	frequency shift allowed			
Humidity	85% R.H. @ +85°C for 250 hrs.			
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of Helium)			
Solderability	Per EIAJ-STD-002			
Max. Wave Soldering	1260°C for 10 acco			
Conditions				
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 <sub>DD</sub>

Part Marking		
Line 1	M2006S067 23875	
Line 2	16.632000 MHz	
Line 3	MtronPTI yyww	
Line 4		

Legend		
уу	Year	
ww	Work Week	
vv	Factory Code	



#### **Datasheet Revision Table:**

Date	Rev.	Author	Details of Revision		
2/6/13	0	MM	Original release.		
10/29/14	А	MM	Changed lead finish to SnPb (63/37)		
05/16/18	В	MM	Updated part marking.		