

SPECIFICATION FOR 1.8 V CMOS COMPATIBLE GULL-WING SMT OSCILLATOR MtronPTI P/N: M6302S010

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		25.000000		MHz	
		Fr	requency Sta	ability		
Frequency Stability	∆F/F	-20		+20	ppm	Inclusive of initial tolerance, deviation over temperature, shock, vibration, voltage, load, and aging
			RF Outpu	ıt		
Output Type		HCMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	40		60	%	Ref. to 1/2 VDD
Logic "1" Level	Vон	80% V _{DD}			V	HCMOS load
Logic "0" Level	Vol			20% V _{DD}	V	HCMOS load
Rise/Fall Time	T _R /T _F			6	ns	From 20% to 80% VDD
Tri-state Enable Logic		80% V _{DD} or N/C			V	Pad 1: Clock Signal Output
Tri-state Disable Logic				20% V _{DD}	V	Pad 1: Output to high-Z
Start-Up Time				10	ms	
		Supply Volt	tage & Powe	r Consump	tion	
Operating Voltage	Vdd	1.62	1.8	1.98	V	
Operating Current	ldd		70	90	mA	

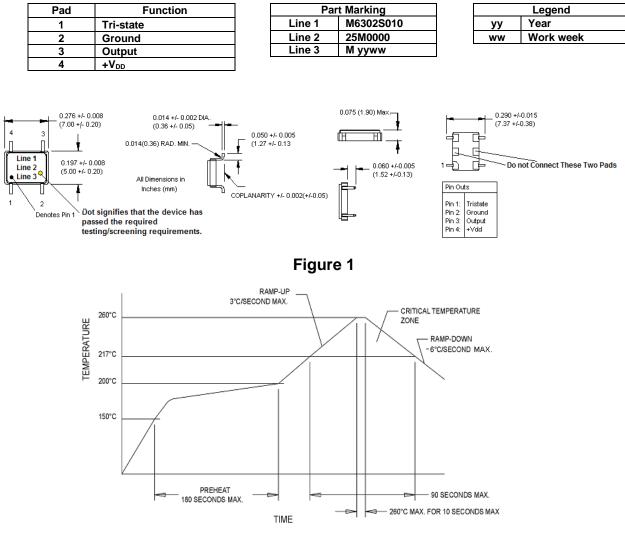
Environmental Conditions:

Operating Temperature	TA	-40		+125	°C	
Storage Temperature	Ts -55			+125	°C	
Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of helium)					
Lead Material	The gull-wing lead material shall be an oxygen-free copper.					
Final Lead Finish	The final lead finish shall be hot solder dipped in Sn63Pb37 solder.					



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Mechanical, Marking and Layout Information:



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
8/28/17	0	MM	Original release.	
9/14/17	А	MM	Updated RT/FT spec from 8ns to 6ns.	
10/31/18	В	MM	Added start-up time.	