



SPECIFICATION FOR 2.5 x 2.0 mm HCMOS COMPATIBLE SMT OSCILLATOR MtronPTI Part Number M2500S038

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		25.000000		MHz	
		F	requency Stat	bility		
Frequency Stability	∆F/F	-25		+25	ppm	Initial frequency @ +25°C and deviation over operating temperature range
			Output			
Output Type		HCMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	45	50	55	%	Ref to 1/2 VDD
Logic "1" Level	Vон	90% V _{DD}			V	HCMOS load
Logic "0" Level	Vol			10% V _{DD}	V	HCMOS load
Rise/Fall Time	T _R /T _F			5	ns	From 10% to 90% V _{DD}
Start-Up Time				10	ms	
Tristate Function		Logic (70%	5 Vdd min) or flo	pating		Pad 1: Enables output
		Logic (30%	5 Vdd max) to a	high-Z state		Pad 1: Disables output
		Supply Vo	Itage & Power	Consumption		•
Operating Voltage	V _{DD}	2.50	3.30	3.60	V	
Operating Current	IDD			8	mA	

Environmental & Mechanical Requirements:

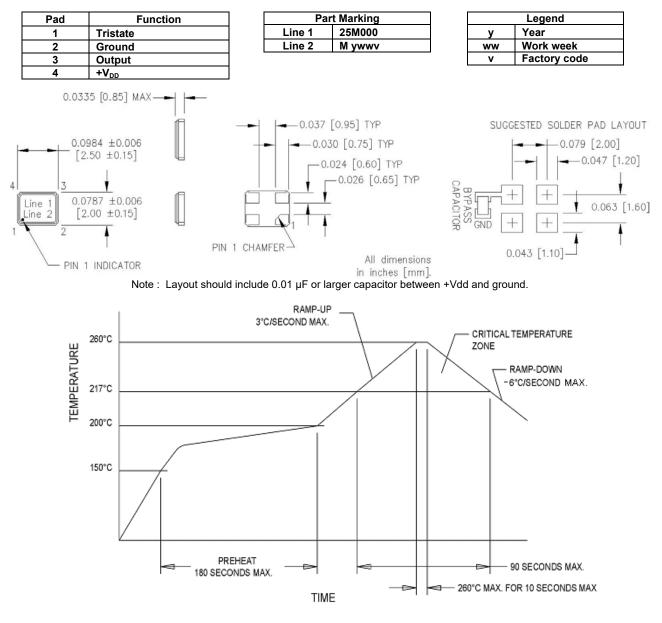
Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ¹ / ₂ sinewave)				ation, ½ sinewave)	
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)					ell, 10 cycles)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	Package Type 2.0 X 2.5 X 0.85 mm, 4-pad leadless ceramic. RoHS 6/6 compliant					ant





SPECIFICATION FOR 2.5 x 2.0 mm HCMOS COMPATIBLE SMT OSCILLATOR MtronPTI Part Number M2500S038

Dimensions, Marking, and Pin Out Information:





DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision		
12/12/16	0	DCO	Original Release		