

1703 E. Highway 50 Yankton, SD 57078 USA

Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709

Website: www.mtronpti.com

SPECIFICATION FOR HCMOS SMT OSCILLATOR MtronPTI P/N: M2532S139

General & Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions	
Frequency of Operation	Fo		25.000000		MHz		
Frequency Stability							
Frequency Stability	ΔF/F	-25		+25	ppm	Includes calibration @ +25 °C, deviation over operating temperature.	
Aging		- 5		+5	ppm	1 st year @ +25°C	
RF Output							
Output Type		HC	CMOS Compati	ble			
Output Load				15	pF		
Symmetry (duty cycle)	T _{DC}	45	50	55	%	Ref to ½ V _{DD}	
Logic "1" Level	V _{OH}	90% V _{DD}			V	HCMOS load	
Logic "0" Level	V_{OL}			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 Logic "1"		70% V _{DD} or N/C			V	Pad 1: Output Enabled	
Tristate Logic "0"				30% V _{DD}	V	Pad 1: Output Disabled to high impedance	
Supply Voltage & Power Consumption							
Operating Voltage	V _{DD}	3.135	3.300	3.465	V		
Operating Current	I _{DD}	_		20	mA		
Other Specifications							
Phase Jitter	Фл			1.0	ps RMS	integrated phase noise, 12 kHz – 5 MHz	

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, ½ sinewave)					
Vibration	Per MIL-S	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)				
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)					
Moisture Sensitivity Level (MSL)	MSL 1					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	ge Type 4-pad 2.5 X 3.2 X 1.2 mm leadless ceramic. RoHS compliant.			nt.		



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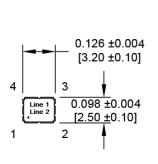
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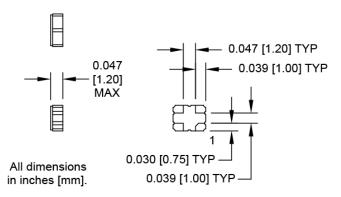
Dimensions, Marking, and Pin Out Information:

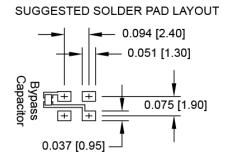
Pad	Function	
1	Tristate	
2	Ground	
3	Output	
4	+V _{DD}	

Part Marking		
Line 1	25M000	
Line 2	Mymv	
Line 2	INI Y III V	

Legend			
y Last digit of year			
m	Month letter code		
٧	Factory code		







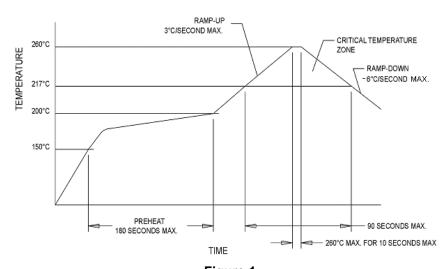


Figure 1

Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
02/27/19	0	BRR	Original release