

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 RoHS 6 COMPLIANT HCMOS SMT OSCILLATOR MtronPTI P/N: M2532S145

I. General & Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		48.000000		MHz	
Frequency Stability						
Frequency Stability	ΔF/F	-25		+25	ppm	Includes initial accuracy @ +25°C, deviation over operating temperature range, supply voltage and output load variations, drop shock, vibration, and first year aging
			RF Outpu	ut		
Output Type		HC	CMOS Compati	ble		
Output Load			15		pF	
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref to ½ V _{DD}
Logic "1" Level	V _{OH}	90% Vdd			V	HCMOS load
Logic "0" Level	V_{OL}			10% Vdd	V	HCMOS load
Rise/Fall Time	T_R/T_F			4	ns	10% to 90% Vdd
Start-Up Time				5	ms	
Triototo Logio		Logic "1" (7	0% Vdd min) or	Open	V	Pad 1: Output Enabled
Tristate Logic		Logic "0" (3	0% Vdd max)		V	Pad 1: Output Disabled to high-Z
Output Disable Time				200	ns	
			Other Parame	eters		
Phase Jitter (RMS)	Фл			1.0	ps	12 KHz to 20 MHz
Supply Voltage & Power Consumption						
Operating Voltage	V_{DD}	2.97	3.30	3.63	V	
Operating Current	I _{DD}			9	mA	

II. 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	TD-202, Me	thod 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	4-pad 2.5 X 3.2 X 1.2 mm leadless ceramic. RoHS compliant.					



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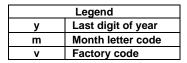


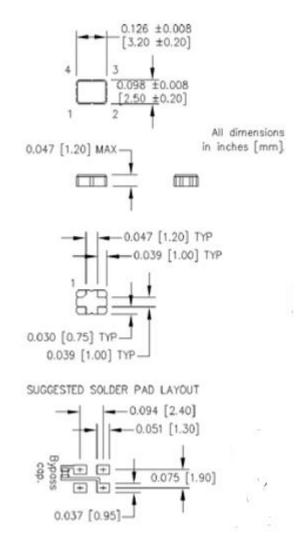
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III. Dimensions, Marking, and Pin Out Information:

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

Part Marking			
00			
V			







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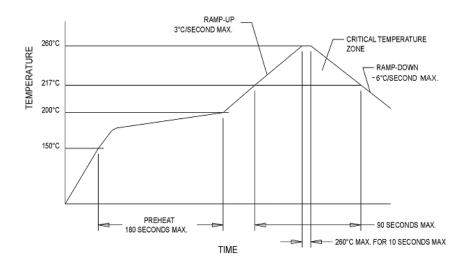


Figure 1

IV. Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
06-26-20	Α	DCO	Orlginal Release	