

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 M2002T266

I. General & Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions	
Frequency of Operation	Fo		40.000000		MHz		
Frequency Stability							
Frequency Stability	ΔF/F	-50		+50	ppm	Includes initial accuracy @ +25°C, deviation over temperature, supply voltage variation, load variation, shock and vibration.	
Aging		-3		+3	nnm	1 st year	
Aging		-2		+2	ppm	Thereafter (per year)	
			RF Out	put			
Output Type		HCM	OS/TTL Comp	atible			
Output Load				15/2	pF/TTL		
Symmetry (duty cycle)	T _{DC}	45	50	55	%	Ref to ½ V _{DD}	
Logic "1" Level	Vон	90% VDD VDD - 0.5			V	HCMOS Load TTL Load	
Logic "0" Level	VoL			10% Vdd 0.5	V	HCMOS Load TTL Load	
Rise/Fall Time	T _R /T _F			6	nS	Ref. to 0.4 V to 2.8 V	
Start-Up Time				10	mS		
Tristate Logic		Logic "1" or Open Logic "0"			V	Pad 1: Output Enabled Pad 1: Output Disabled to high-Z	
Other Parameters							
Random Jitter	RJ		4	10	pS RMS	1-Sigma	
Supply Voltage & Power Consumption							
Operating Voltage	V _{DD}	3.0	3.3	3.6	V		
Operating Current	I _{DD}			20	mA		

II. Environmental & Mechanical Requirements:

Operating Temperature	TA	-55		+125	°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-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Hermeticity	neticity Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)					
Solderability	Per EIAJ-STD-002					
Max. Soldering	See colder profile. Figure 1					
Conditions	See solder profile, Figure 1					
Package Type 4-pad 5 X 7 X 1.9 mm leadless ceramic. Solder tinned pads (SnPb).			s (SnPb).			



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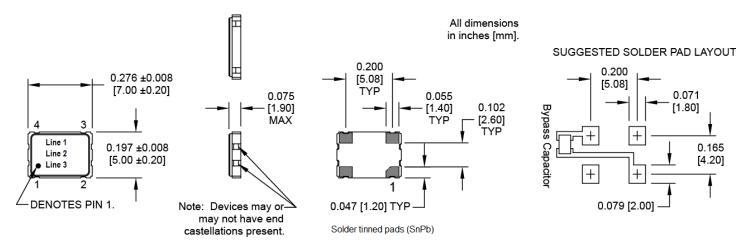
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III. Dimensions, Marking, and Pin Out Information:

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

Part Marking		
Line 1	M2002T266	
Line 2	40M0000	
Line 3	M yy ww vv	

Legend		
уу	Year	
ww	Work week	
VV	Factory code	



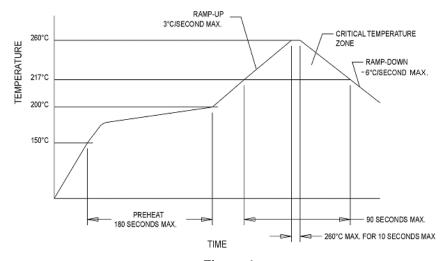


Figure 1

IV. Datasheet Revision Table:

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	Date	Rev.	Author	Details of Revision		
	4/14/15	Α	DPD	Added Honeywell part number in the datasheet		
	3/19/15	0	MM	Original release.		