



SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS TCXO MtronPTI P/N M6300S077

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		80.000000		MHz	
Initial Accuracy		-1		+1	ppm	@ +25°C
Ť.			Frequency Sta	ability		
vs. Temperature	∆F/F			2.5	ppm	Over operating temperature range (F _{Max} - F _{Min})/2
		-3		+3		1 st year
vs. Aging		-1		+1	ppm	Thereafter (per year)
			RF Outpu	t		
Output Type			HCMOS			
Output Load			15		рF	
Symmetry (duty cycle)	T _{DC}	45		55	%	1/2 VDD
Logic "1" Level	Vон	90% V _{DD}			V	HCMOS load
Logic "0" Level	V _{OL}			10% V _{DD}	V	HCMOS load
Rise/Fall Time	T _R /T _F			6	nS	From 10% to 90% VDD
Tristate Enable Logic		80% V _{DD} or N/C			V	Pad 1. Clock Signal Output
Tristate Disable Logic				0.5	V	Pad 1. Output to High-Z
		1	SSB Phase N	oise		
Typical Under Static Conditions			-74		-	@ 10Hz
			-106			@ 100Hz
			-124			@ 1kHz
			-131			@ 10kHz
			-136		dBc/Hz	@ 100kHz
			-144			@ 1 MHz
			-150			@ 10 MkHz
			-153			@ 20 MkHz
	-	Supply V	oltage & Powe	r Consum	otion	•
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Operating Current	Icc			90	mA	
			Temperature F	Range		
Operating Temperature	TA	-40		+85	°C	
Storage Temperature	TS	-55		+125	°C	

Environmental Conditions:

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 Shock	Per MIL-STD-883, Method 1011, Condition A
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)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See Figure 1.
Package Type	6-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant. M6300-Series

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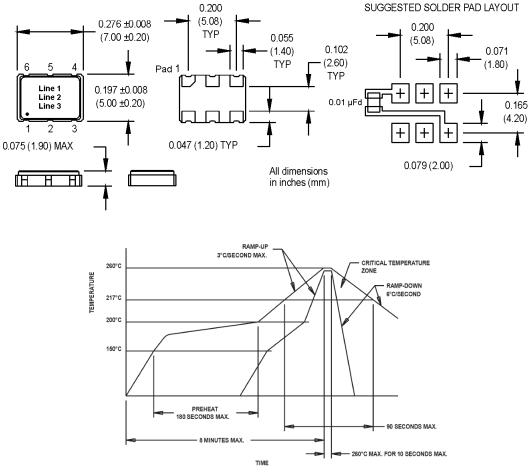
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Mechanical, Marking, and Pin Out Information:

Part Marking	
Line 1	M6300S077
Line 2	80M0000
Line 3	MPTI yyww

Legend	
уу	Year
ww	Work week

Pin	Function	
1	Tristate	
2	N/C	
3	Ground	
4	Output	
5	N/C	
6	+V _{cc}	





Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
11/17/14	0	MM	Original release.