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Website: www.mtronpti.com



Specification for an TCXO MtronPTI P/N: M6300S050

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		100.000000		MHz	
		I	Frequency Stab	ility		
Frequency Tolerance		-1.0		+1.0	ppm	@ + 25°C
Frequency Stability	ΔF/F	-0.5		+0.5	ppm	(Max-Min)/2
Frequency vs. Aging		-3.0 -1.0		+3.0 +1.0	ppm	First year. Per year thereafter
Frequency vs. Supply			± 0.4		ppm	5% supply variation
Frequency vs. Load			± 0.2		ppm	5% load variation
			Output			
Output Type		H	CMOS Compatib	ole		
Output Load		15		рF		
Symmetry (duty cycle)	T _{DC}	45		55	%	½ V _{DD}
Logic "1" Level	Vон	2.97			V	HCMOS load
Logic "0" Level	Vol			0.33	V	HCMOS load
Rise/Fall Time	T _R /T _F			6	nS	From 20% to 80% V _{DD}
			SSB Phase No	ise		
Typical Under Static Conditions			-70		dBc/Hz	@ 10Hz Offset
			-95		dBc/Hz	@ 100Hz Offset
			-120		dBc/Hz	@ 1000Hz Offset
			-128		dBc/Hz	@ 10kHz Offset
			-134		dBc/Hz	@ 100kHz Offset
			Supply			
Operating Voltage	V_{DD}	3.135	3.3	3.465	V	
Operating Current	I _{DD}			90	mA	
			Temperature Ra			
Operating Temperature	TA	-20		+75	°C	
Storage Temperature	TS	-45		+85	°C	

Environmental, Mechanical & Test Report Requirements:

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)
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)
Thermal Shock	Per MIL-STD-883, Method 1011, Condition A
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	6-pad 5 X 7 X 1.9 mm leadless ceramic. RoHS compliant.
Test Report	A test report shall be included for each lot shipped. The report shall include Frequency and Frequency Stability Over Temperature measured data for each unit within the lot but the units will not be serialized.





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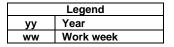


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Dimensions, Pin Out, & Marking Information:

Pad	Function	
1	N/C	
2	N/C	
3	Ground	
4	Output	
5	N/C	
6	+V _{DD}	

Part Marking			
Line 1	M6300S050		
Line 2	100M000000		
Line 3	M yyww		



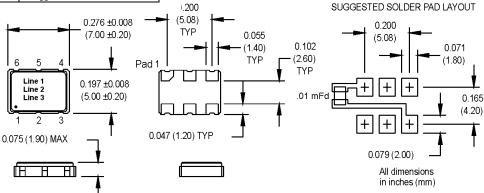


Figure 1

