



Specification for an SMT TCXO MtronPTI P/N: M6300S048

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		98.666667		MHz	
		F	Frequency Stab	oility		
Frequency Tolerance		0	+1.0	+2.0	ppm	@ + 25°C
Frequency Stability	$\Delta F/F$	-0.5		+0.5	ppm	(Max-Min)/2
Frequency vs. Aging		-3.0		+3.0		First year.
		-1.0		+1.0	ppm	Per year thereafter
Frequency vs. Supply			± 0.4		ppm	5% supply variation
Frequency vs. Load			± 0.2		ppm	5% load variation
			Output			
Output Type		HC	CMOS Compatib	le		
Output Load		15		рF		
Symmetry (duty cycle)	T _{DC}	45		55	%	1/2 VDD
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	Vdd	3.135	3.3	3.465	V	
Operating Current	IDD			90	mA	
			emperature Ra		•	
Operating Temperature	TA	-20		+75	O°	
Storage Temperature	TS	-45		+85	С°	

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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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	M6300S048	
Line 2	98M6666	
Line 3	M yyww	

Legend		
уу	Year	
ww	Work week	



