

SPECIFICATION FOR RoHS 6 COMPLIANT LVDS OUTPUT SMT TCXO

MtronPTI P/N M6300S047

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		400.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
Frequency Stability						
Frequency Stability	ΔF/F	-4.6		+4.6	ppm	
Aging		-3		+3	ppm	1 st year
		-1		+1	ppm	Per year thereafter.
RF Output						
Output Type		Differential LVDS Compatible				
Output Load		100 Ω Differential			V	
Common Mode Output Voltage			1.2		V	
Differential Output Voltage		250	350	450	mV	LVDS Load
Symmetry (duty cycle)	T _{DC}	45		55	%	Referenced to 1.25 V
Output Skew			20		ps	
Rise/Fall Time	T _R /T _F			0.35	ns	From 20% to 80% V _{CC}
Other Parameters						
Phase Noise			-60		dBc/Hz	@ 10 Hz
			-85		dBc/Hz	@ 100 Hz
			-115		dBc/Hz	@ 1 kHz
			-120		dBc/Hz	@ 10 kHz
			-126		dBc/Hz	@ 100 kHz
			-135		dBc/Hz	@ 1 MHz
			-147		dBc/Hz	@ 10 MHz
Supply Voltage & Power Consumption						
Operating Voltage	V _{CC}	3.135	3.3	3.465	V	
Operating Current	I _{CC}			100	mA	

Environmental Conditions:

Operating Temperature	T _A	-55		+105	°C	
Storage Temperature	T _S	-55		+125	°C	
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					
Storage Temperature	-55°C to +125°C					
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.					

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Mechanical, Marking, and Pin Out Information:

Part Marking	
Line 1	M6300S047
Line 2	400M000
Line 3	yyww
Line 4	MtronPTI

Legend	
yy	Year
ww	Work week

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

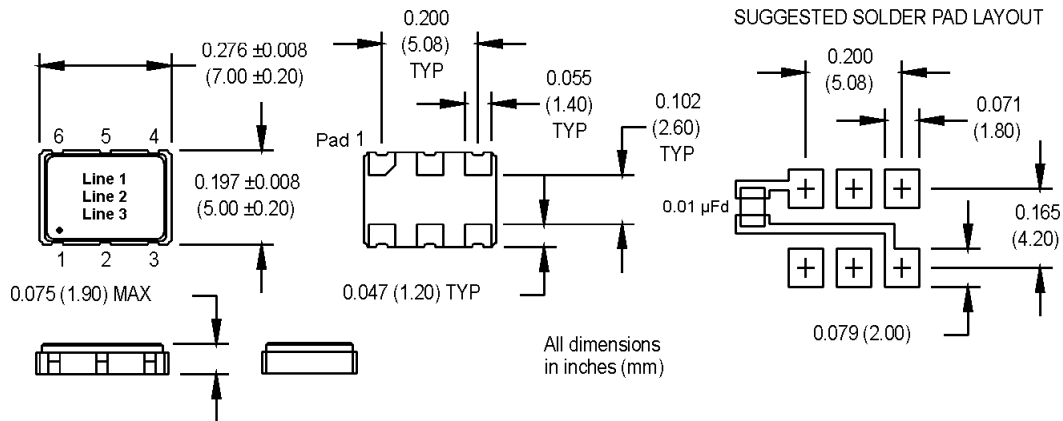


Figure 1

