SPECIFICATION FOR SMT LVDS OUTPUT VCTCXO
MtronPTI P/N M6300S019

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F_O		486.000000		MHz	
Frequency Stability	$\Delta F/F$	-4.6		+4.6	ppm	$([F_{max} - F_{min}]/2)$ Over operating temperature range
Operating Temperature	T_A	-40		+85	°C	
Operating Voltage	V_{CC}	3.135	3.3	3.465	V	
Operating Current	I_{CC}			100	mA	
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%
Tuning Adjustment Range		20			ppm	Pad 1.
Control Voltage		0	1.65	3.3	V	Pad 1.
Gain Transfer Function			17		ppm/V	Vc= 0.3V to 3.0V
Output Enable Function	V_{IH}	75% V_{CC}			V	Pad 2
Output Disable Function	V_{IL}			0.5	V	Pad 2
Phase Noise				-46	dBc/Hz	@ 10 Hz
				-79	dBc/Hz	@ 100 Hz
				-104	dBc/Hz	@ 1 kHz
				-114	dBc/Hz	@ 10 kHz
				-120	dBc/Hz	@ 100 kHz

Environmental Conditions:

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)
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	M6300S019
Line 2	486M0000
Line 3	MPTI yyww

Legend	
yy	Year
ww	Work week

Pin	Function
1	Control Voltage
2	Enable/Disable
3	Ground
4	Output
5	Complementary Output
6	+V_{CC}
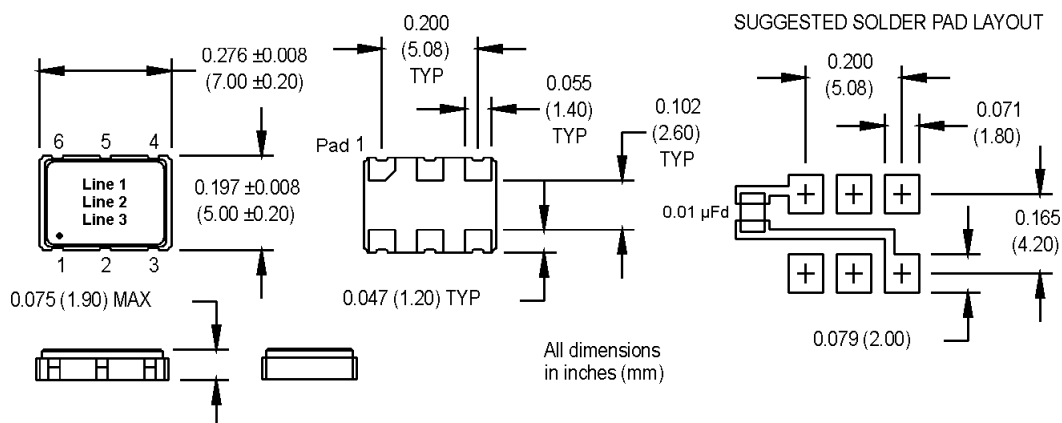
Figure 1
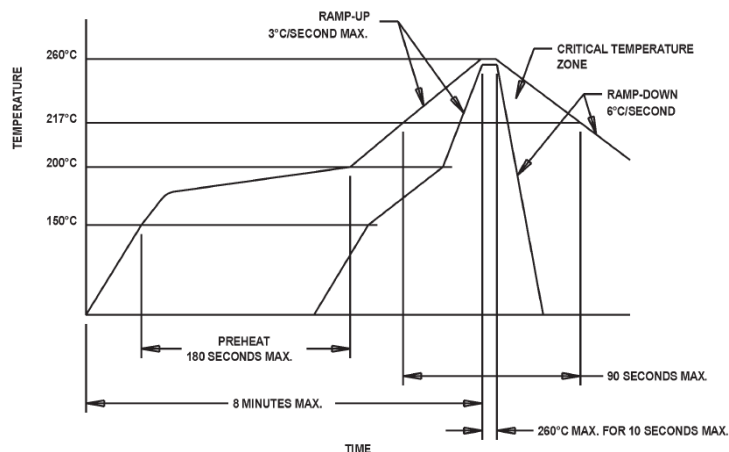
IV. DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
5/11/09	0	WNJ	Original release.
5/12/09	A	WNJ	Changed Logic type to LVDS.
4/10/12	B	MM	Changed phase noise specification to maximum.