





SPECIFICATION FOR RoHS 6 COMPLIANT LVPECL OUTPUT SMT VCXO MtronPTI P/N M3200S038

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		120.000000		MHz	
		Fre	equency Stab	ility		
vs Temperature	ΔF/F	-50		+50		
		-5		+5		1 st year
vs. Aging		-1		+1	ppm	Per year thereafter.
			RF Output			-
Output Type		LV	PECL Compati	ble		
Output Load			50 Ω (Vcc - 2)			
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref. to V _{CC} - 1.3 V
Output Logic	Vон	Vcc - 1.02			V	Logic Level "1"
	Vol			Vcc - 1.63	V	Logic Level "0"
Rise/Fall Time	T _R /T _F			0.55	nS	From 20% to 80% of Waveform
Enable/Disable Logic		80% Vcc or N/C			V	Pin 2: Output Enabled
5				0.5	V	Pin 2: Output to high-Z
	-	Free	quency Adjust	ment		
Control Voltage Range		0.3	1.65	3.0	V	Pin 1
Pullability (APR)		± 80			ppm	Pin 1
Linearity				5	%	Positive Monotonic
Modulation Bandwidth		10			kHz	- 3 dB
Input Resistance	Z _{IN}	500			kΩ	Pin 1
		0	ther Paramet	ers		
			-52			@ 10 kHz
			-81			@ 100 kHz
			-106			@ 1 kHz
Phase Noise			-125		dBc/Hz	@ 10 kHz
			-133			@ 100 kHz
			-145			@ 1 MHz
			-152			@ 10 MHz
	S	Supply Volta	age & Power	Consumption	on	
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Operating Current	Icc			125	mA	

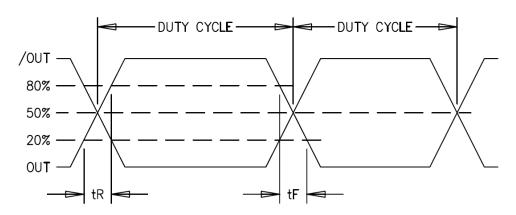






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Output Waveform:



Environmental Conditions:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	Ts	-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 Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)			nin. dwell, 10 cycles)		
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)		m)			
Hermeticity	Per MIL-S	TD-202, M	ethod 112 (1	x 10 ⁻⁸ atm c	c/s of heliu	m)
Moisture Sensitivity Level (MSL)	MSL 1					
Solderability	Per EIAJ-S	STD-002				
Max. Soldering Conditions	See Figure	e 1.				
Package Type	9.0 X 14.0 X 4.7 mm 4 J-lead ceramic. RoHS compliant.					

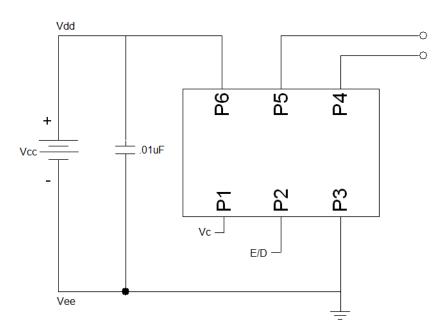


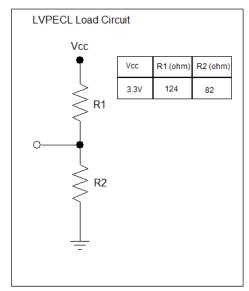




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Typical Test Circuit & Load Circuit Diagrams:





Soldering Conditions:

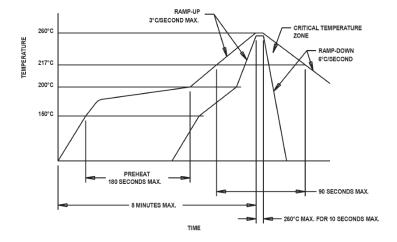


Figure 1







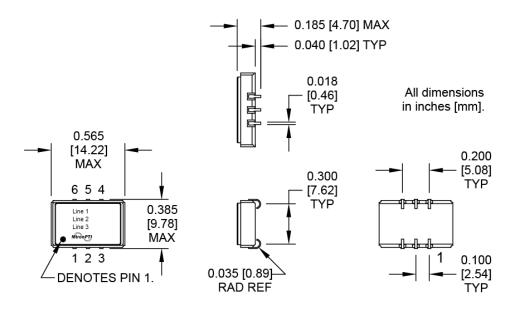
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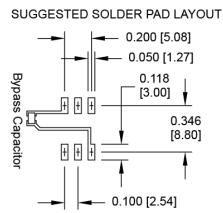
Mechanical, Marking, and Pin Out Information:

Part Marking		
Line 1	M3200S038	
Line 2	120M0000	
Line 3	MPTI yyww	

Legend			
уу	Year		
ww	Work week		

Pin	Function	
1	Voltage Control	
2	Enable/Disable	
3	Ground	
4	Output	
5	Complementary Output	
6	+V _{CC}	





Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
03/23/16	0	MM	Original release.	