





SPECIFICATION FOR 3.3V LVPECL SMT VCTCXO MtronPTI P/N M6300S119

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		1000.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
		F	requency Stal	bility		
vs. Temperature	ΔF/F			1.0	ppm	(Max-Min)/2
vs. Aging		-3		+3	ppm	1 st year
		-1		+1	ppm	Per year thereafter.
			RF Output			
Output Type		Ľ	VPECL Compatil	ble		
Output Load		50 Ω to (V _{CC} – 2)			V	
Logic "1" Level Output	V _{OH}	V _{cc} -1.02			V	
Logic "0" Level Output	V _{OL}			$V_{cc} - 1.63$	V	
Output Skew			20		ps	LVPECL load
Symmetry (Duty Cycle)	T _{DC}	45		55	%	Ref. at 50% of waveform
Rise/Fall Time	T _R /T _F			0.35	nS	From 20% to 80% V _{CC}
		Fr	requency Adjus	tment		
Control Voltage Range		0.3		3.0	V	Pad 1
Tuning Range		± 5			ppm	Pad 1
		Supply Vo	Itage & Power	Consumpt	ion	
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Operating Current	Icc			130	mA	

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-S	TD-202, Me	thod 213, Condi	tion C (100 g	s, 6 ms d	uration, 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					
Hermeticity	Per MIL-S	TD-202, Me	thod 112 (1 x 10	-8 atm cc/s of	helium)	
Moisture Sensitivity Level (MSL)	MSL 1					
Solderability	Per EIAJ-STD-002					
Max. Soldering	See Figure 1.					
Conditions						
Package Type	6-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant.					

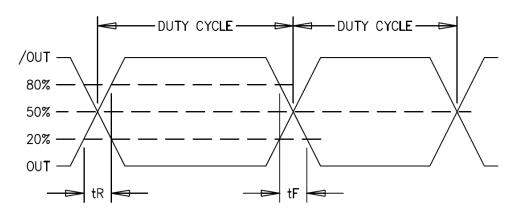




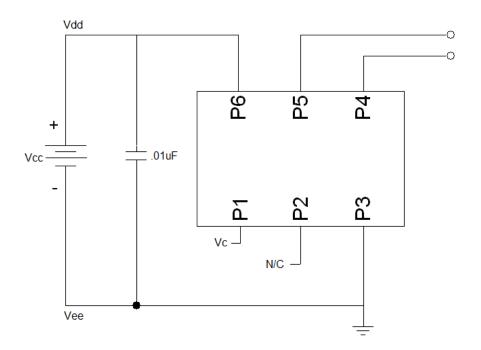


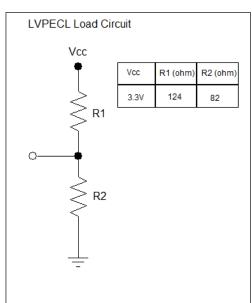
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Output Waveform:



Typical Test Circuit & Load Circuit Diagrams:











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Soldering Conditions:

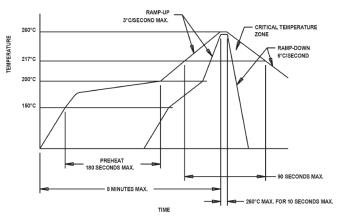
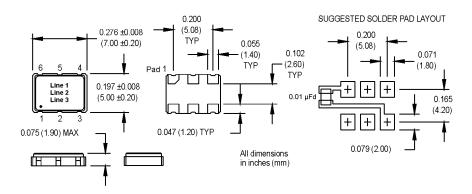


Figure 1

Mechanical, Marking, and Pin Out Information:



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
09/27/18	0	MM	Original release.	