





SPECIFICATION FOR 2.5V CML SMT TCXO MtronPTI P/N M6301S016

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		125.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
		F	Frequency Sta	ability		
vs. Temperature	Δ F/F			4.6	ppm	(Max-Min)/2
		-3		+3	ppm	1 st year
vs. Aging		-1		+1	ppm	Per year thereafter.
			RF Outpu	t		
Output Type			CML			
Output Load		100 Ω Differential		V		
Differential Output Voltage		1.1	1.5	1.9	V pk-pk	CML Load
Symmetry (duty cycle)	T _{DC}	45		55	%	50% (Vон - Vol)
Rise/Fall Time	T _R /T _F			0.35	nS	From 20% to 80% Vcc
	S	Supply Vo	Itage & Powe	r Consun	nption	
Operating Voltage	Vcc	2.375	2.5	2.625	V	
Operating Current	Icc			125	mA	

Environmental Conditions:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	TA	-55		+125	°C	
Storage Temperature	Ts	-55		+125	°C	
Shock	Per MIL-S	TD-202, M	ethod 213, Con	dition C (10	0 g's, 6 ms (duration, ½ sinewave)
Vibration	Per MIL-S	TD-202, M	ethod 201 & 20	4 (10 g's fro	om 10-2000	Hz)
Thermal Shock	Per MIL-S	TD-883, M	ethod 1011, Co	ndition A		
Thermal Cycle	Per MIL-S	TD-883, M	ethod 1010, Co	ndition B		
Hermeticity	Per MIL-S	TD-202, M	ethod 112 (1 x 1	10 ⁻⁸ atm cc/	s of helium)	
Moisture Sensitivity Level (MSL)	MSL 1					
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.					nt.	

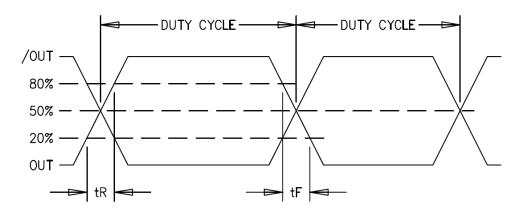




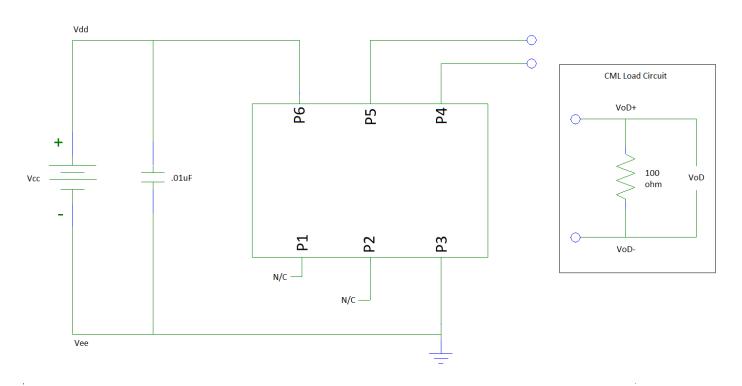


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Output Waveform:



Typical Test Circuit & Load Circuit Diagrams:



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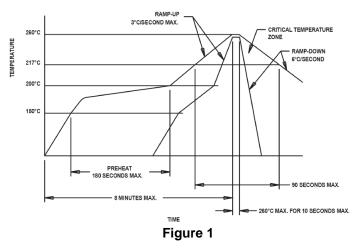




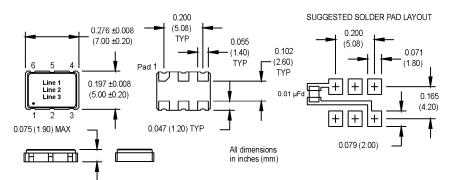


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Soldering Conditions:



Mechanical, Marking, and Pin Out Information:



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
06/15/18	0	MM	Original release.	
06/21/18	Α	MM	Updated symmetry	
03/01/19	В	MM	Updated differential output voltage.	