





### SPECIFICATION FOR 1.8V CML SMT TCXO MtronPTI P/N M6302S025

### **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
Frequency Stability						
vs. Temperature	$\Delta$ F/F			4.6	ppm	(Max-Min)/2
vs. Aging		-3		+3	ppm	1 <sup>st</sup> year
		-1		+1	ppm	Per year thereafter.
			RF Outpu	t		
Output Type			CML			
Output Load		100 Ω Differential			V	
Differential Output Voltage		250	425	500	mV	CML Load
Symmetry (duty cycle)	T <sub>DC</sub>	45		55	%	50% (Voн - VoL)
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>			0.35	nS	From 20% to 80% Vcc
Supply Voltage & Power Consumption						
Operating Voltage	Vcc	1.71	1.80	1.89	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-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)						
Vibration	Per MIL-S	TD-202, M	ethod 201 & 20	4 (10 g's fro	m 10-2000	Hz)	
Thermal Shock	Per MIL-S	TD-883, M	ethod 1011, Co	ndition A			
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B						
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of helium)						
Moisture Sensitivity Level (MSL)	MSL 1						
Solderability	Per EIAJ-S	STD-002					
Max. Soldering Conditions	See Figure	e 1.	·	•	•	·	
Package Type	ckage Type 6-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant.				it.		

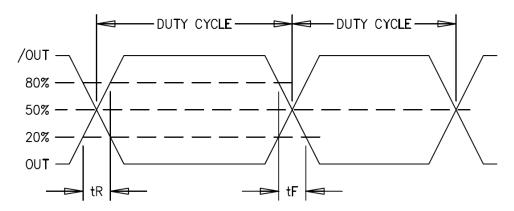




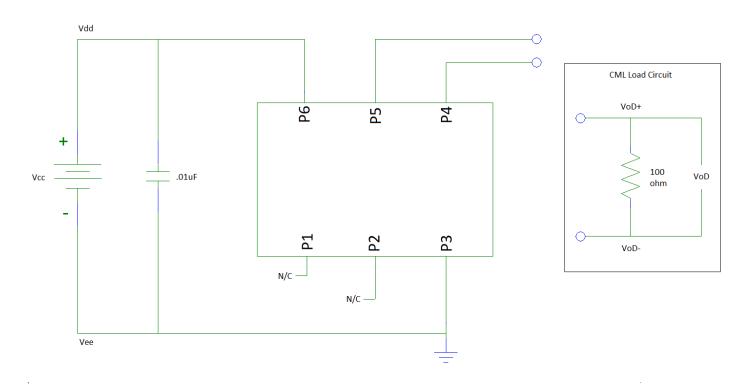


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# **Output Waveform:**



# **Typical Test Circuit & Load Circuit Diagrams:**



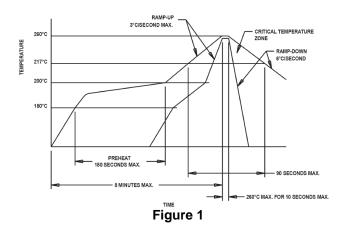




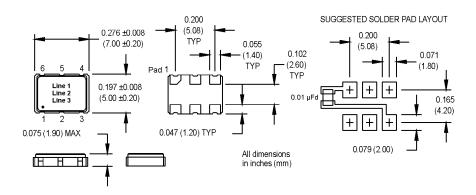


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### **Soldering Conditions:**



### **Mechanical, Marking, and Pin Out Information:**



#### **Datasheet Revision Table:**

Date	Rev.	Author	Details of Revision	
11/15/18	0	MM	Original release.	