





# SPECIFICATION FOR 1.8V LVDS SMT TCXO MtronPTI P/N M6302S023

## **Electrical Specifications:**

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		78.125000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
		F	requency Sta	bility		
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	Differential LVDS Compatible			patible		
Output Load		100 Ω Differential			V	
Common Mode Output Voltage			1.2		V	
Differential Output Voltage		250	425	500	mV	LVDS Load
Symmetry (duty cycle)	T <sub>DC</sub>	45		55	%	Referenced to 1.2 V
Rise/Fall Time	$T_R/T_F$			0.35	nS	From 20% to 80% Vcc
	S	upply Vo	Itage & Powe	r Consum	nption	
Operating Voltage	V <sub>cc</sub>	1.71	1.80	1.89	V	
Operating Current	I <sub>cc</sub>			100	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	om 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-STD-202, Method 112 (1 x 10 <sup>-8</sup> 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.					

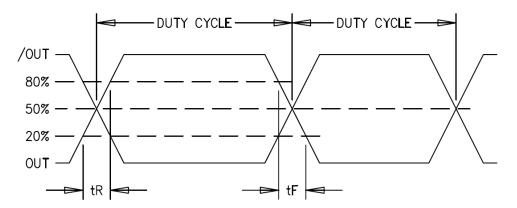




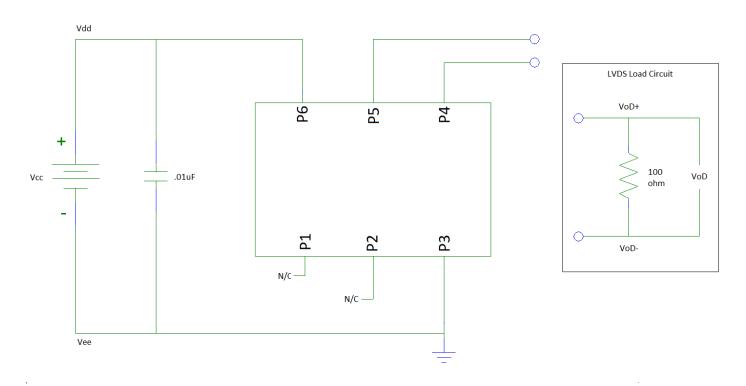


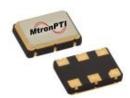
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# **Output Waveform:**



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









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## **Soldering Conditions:**

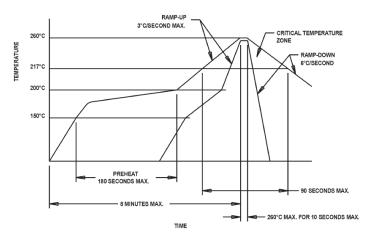
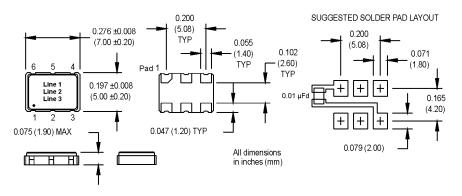


Figure 1

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



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

Date	Rev.	Author	Details of Revision
08/02/18	0	MM	Original release.