



## SPECIFICATION FOR 3.3V CMOS SMT TCXO

### MtronPTI P/N M6300S098

#### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F <sub>O</sub>		50.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
<b>Frequency Stability</b>						
vs. Temperature	ΔF/F			1.0	ppm	(Max-Min)/2
vs. Aging		-3		+3	ppm	1 <sup>st</sup> year
		-1		+1	ppm	Per year thereafter.
<b>RF Output</b>						
Output Type		HCMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T <sub>DC</sub>	45		55	%	Ref. to ½ V <sub>DD</sub>
Logic "1" Level	V <sub>OH</sub>	80% V <sub>DD</sub>			V	HCMOS load
Logic "0" Level	V <sub>OL</sub>			20% V <sub>DD</sub>	V	HCMOS load
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>			6	ns	From 20% to 80% V <sub>DD</sub>
<b>Supply Voltage &amp; Power Consumption</b>						
Operating Voltage	V <sub>CC</sub>	3.135	3.300	3.465	V	
Operating Current	I <sub>CC</sub>			90	mA	

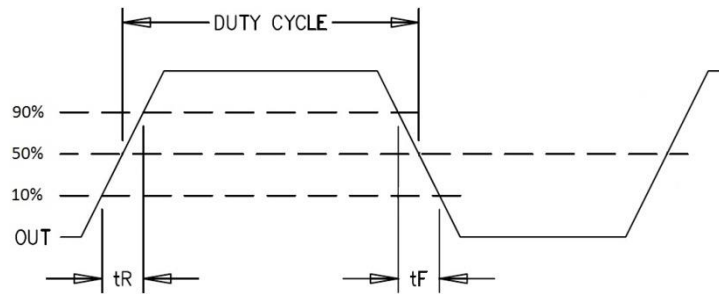
#### Environmental Conditions:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Storage Temperature	T <sub>S</sub>	-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 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.					

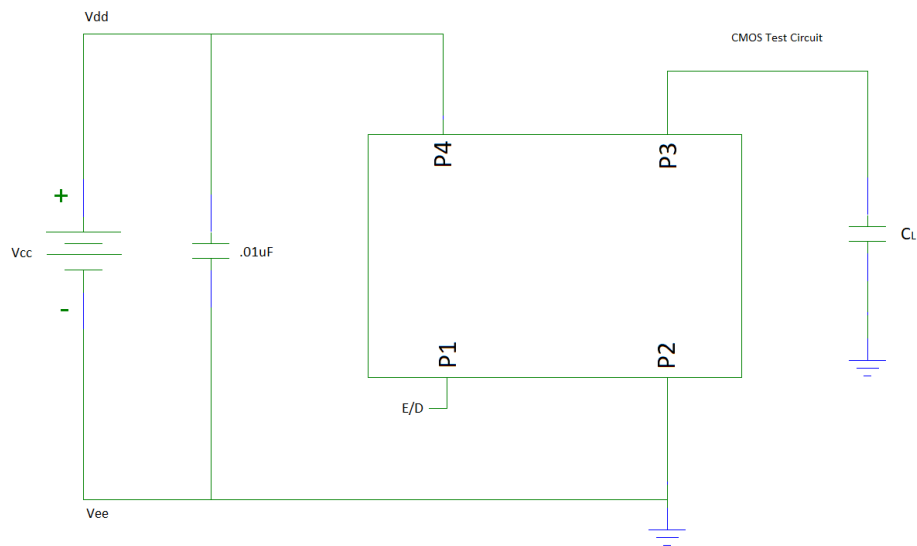


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### Output Waveform:



### Typical Test Circuit & Load Circuit Diagrams:





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### Soldering Conditions:

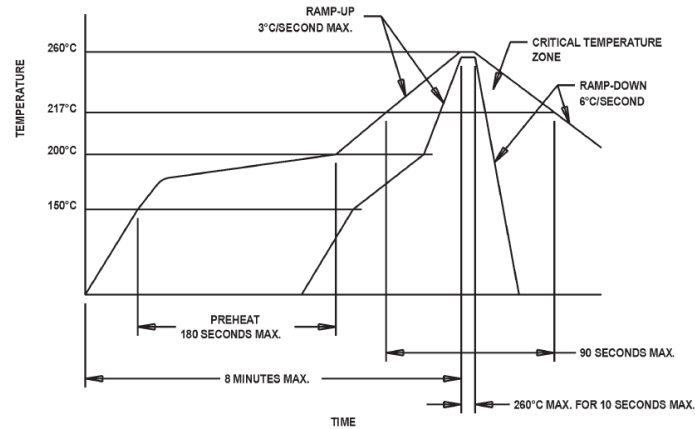
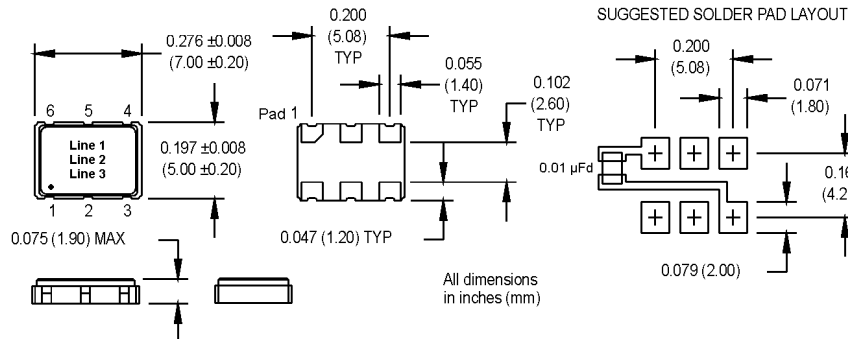


Figure 1

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

Legend	
yy	Year
ww	Work week

Pin	Function
1	N/C
2	N/C
3	Ground
4	Output
5	N/C
6	+V <sub>CC</sub>



### Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
04/25/18	0	MM	Original release.