

SPECIFICATION FOR 3225 SMT TCXO MtronPTI P/N M6055S015

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F ₀		25.000000		MHz	
Frequency Tolerance		-2.0		+2.0	ppm	@ +25°C, sixty minutes after reflow soldering, +260°C peak, 10s max.
Frequency Stability						
Frequency Stability	ΔF/F	-5.0		+5.0	ppm	Deviation over operating temp.
Frequency Vs. Load		-0.2		+0.2	ppm	For 5% load change
Frequency Vs. Supply		-0.2		+0.2	ppm	For 5% voltage change
Frequency Vs. Aging		-1.0		+1.0	ppm	1 st year
Output						
Output Type		CMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	45	50	55	%	@ 50% of V _{DD}
Logic "1" Level	V _{OH}	90			% V _{DD}	CMOS load
Logic "0" Level	V _{OL}			10	% V _{DD}	CMOS load
Rise/Fall Time	T _R /T _F			5	ns	From 10% to 90% V _{DD}
Startup Time	T _{SU}			10	ms	
Tristate Function		Logic High, or N/C				Pad 1: Output Enabled
		Logic Low				Pad 1: Output is disabled to high-Z
Other Parameters						
Phase Noise			-75		dBc/Hz	@ 10 Hz
			-111		dBc/Hz	@ 100 Hz
			-141		dBc/Hz	@ 1 kHz
			-152		dBc/Hz	@ 10 kHz
			-156		dBc/Hz	100 kHz
Jitter			2.1		ps RMS	Based on histogram of cycle times
			20.0		ps pk-pk	
Supply Voltage & Power Consumption						
Operating Voltage	V _S	2.375	2.500	2.625	V _{DC}	
Operating Current	I _S			5	mA	

Environmental Conditions:

Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+125	°C	
Mechanical Shock	100 g's, 6 ms duration, half sine wave					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 20-2000 Hz)					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solder profile, Figure 1					
Package	4 pad 2.5 X 3.2 X 1.0 mm leadless ceramic. RoHS compliant.					

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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	25M000
Line 2	o M y m v

Legend	
o	Pin 1 indicator
y	Last digit of year
m	Letter code month
v	Factory Code

Pin	Function
1	Tristate
2	Ground
3	Output
4	+V _{DD}

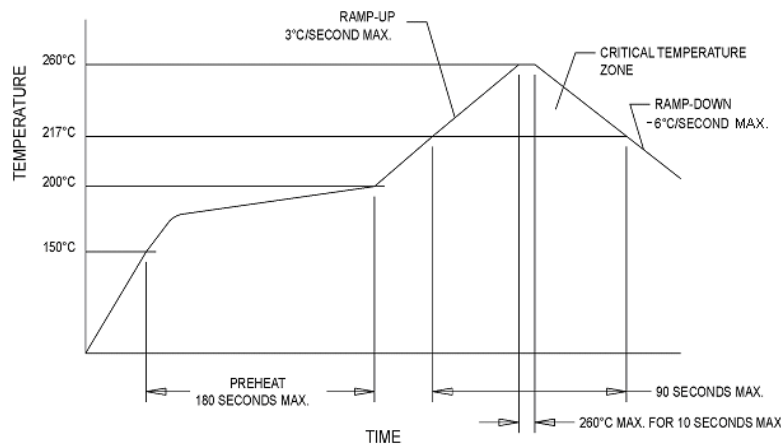
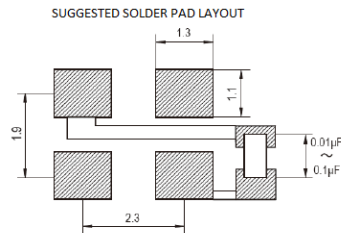
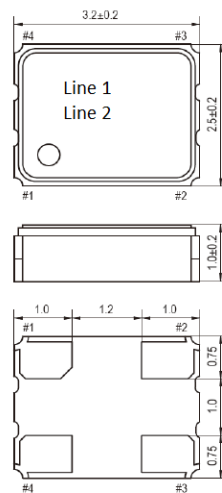


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
04/24/18	0	MM	Original release