

SPECIFICATION FOR 3225 SMT TCXO

MtronPTI P/N M6055S010

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F ₀		24.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25 °C, ref. to 24.000000 MHz
Tolerance After Reflow Soldering	ΔF/F	-1.5		+1.5	ppm	@ +25 °C, ref. to 24.000000 MHz, after one reflow soldering profiles (+260 °C for 10s max.)
Frequency Stability						
Frequency Stability	ΔF/F	-2.0		+2.0	ppm	Deviation over operating temp. , ref. to +25 °C
Frequency Vs. Load		-0.2		+0.2	ppm	For 10% load change
Frequency Vs. Supply		-0.1		+0.1	ppm	For 5% voltage change
Frequency Vs. Aging		-1.0		+1.0	ppm	Per year @ 25°C, ±2°C
Output						
Output Type		Clipped Sine Wave				External DC-cut output capacitor (0.001 μF) required.
Output Levels	V _{Out}	0.8			V _{pk-pk}	Load =10K // 10 pF
Output Load			10		pF	
			10		kΩ	
Supply Voltage & Power Consumption						
Operating Voltage	V _S	3.0	3.3	3.6	V _{DC}	
Operating Current	I _S			2.0	mA	

Environmental Conditions:

Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-40		+90	°C	
Mechanical Shock	100 g's, 11 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 0.9 mm leadless ceramic. RoHS compliant.					

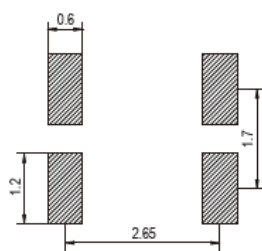
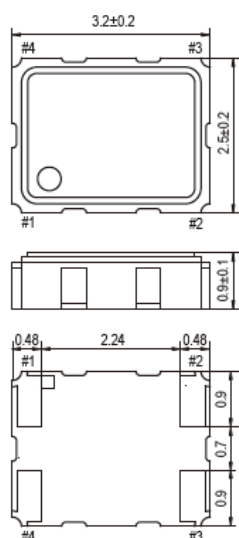
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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	24M00
Line 2	M y w v

Legend	
y	Year
w	Work Week
v	Factory Code

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



Dimensions are in mm.

A capacitor of value 0.01 μ F or greater between +V_{DD} and ground is recommended.

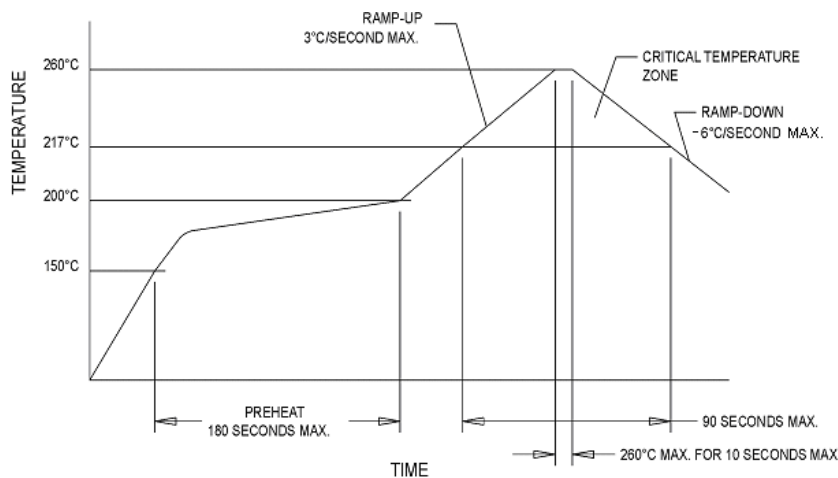


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
02/25/16	0	MM	Original release