

SPECIFICATION FOR 3225 SMT TCXO MtronPTI P/N M6055S026

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F _o		20.000000		MHz	
Frequency Tolerance		-2.5		+2.5	ppm	@ +25°C, after two reflow soldering profiles (per profile in Figure 1)
Frequency Stability						
Frequency Stability	ΔF/F	-3.0		+3.0	ppm	Deviation over operating temperature, referenced to +25 °C
Frequency Vs. Load		-0.2		+0.2	ppm	For 10% load change
Frequency Vs. Supply		-0.2		+0.2	ppm	For 5% voltage change
Frequency Vs. Aging		-1.0		+1.0	ppm	Per year
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		10KΩ // 10pF				
Other Parameters						
Phase Noise			-85		dBc/Hz	@ 10Hz
			-110		dBc/Hz	@ 100Hz
			-135		dBc/Hz	@ 1kHz
			-150		dBc/Hz	@ 10kHz
Supply Voltage & Power Consumption						
Operating Voltage	V _s	2.85	3.00	3.15	V _{DC}	
Operating Current	I _s			2.0	mA	

Environmental Conditions:

Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+105	°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 1.2 mm leadless ceramic. RoHS compliant.					

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Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	20M000
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	No Connection
2	Ground
3	Output
4	+V _{DD}

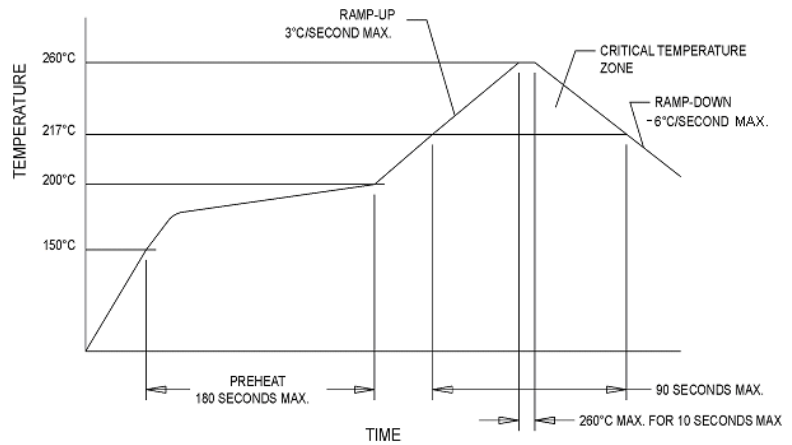
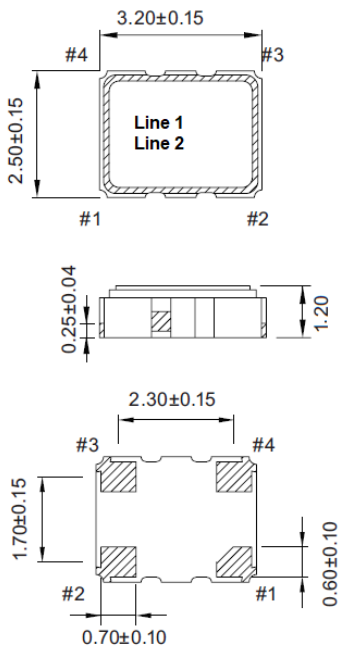
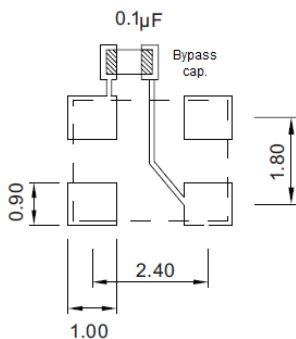


Figure 1

SUGGESTED SOLDER PAD LAYOUT



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
03-13-20	A	BRR	Original release