



SPECIFICATION FOR RoHS 6 COMPLIANT SMT VCTCXO MtronPTI P/N: M6030S072

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency	Fo		24.000000		MHz	
Frequency Tolerance		-2		+2	ppm	@ +25°C
		F	requency Sta	bility		
vs. Temperature		-1.5		+1.5	ppm	Over operating Temp
vs. load		-0.2		+0.2	ppm	±10%
vs. Supply		-0.1		+0.1	ppm	±5%
vs. Aging		-1.0		+1.0	ppm	Per year @ 25°C
			RF Outpu	t		
Output Type			HCMOS			
Output Load			15pF			
		90%V _{DD}				Output High, logic "1"
Output Level				10%V _{DD}		Output low, logic "0"
Duty		45%		55%		
		Fre	quency Adjus	stment		
Tuning Voltage Range	Vc	0.5		2.50	V	
Tuning Range		±5		±12	ppm	
Start-Up Time				2	ms	
		Addi	tional Specifi	ications		
SSB Phase Noise (Under Static Conditions) @19.2MHz			-115		dBc/Hz	@ 100Hz Offset
			-135		dBc/Hz	@ 1kHz Offset
			-148		dBc/Hz	@ 100kHz Offset
	ę	Supply Volt	age & Powe	r Consump	tion	
Operating Voltage	Vdd	3.135	3.300	3.465	V	
Operating Current	IDD			6	mA	

Environmental Conditions:

Operating Temperature	TA	-30		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Mechanical Shock	hanical 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 20-2000 Hz)					<u>z</u>)
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium) (Crystal Only)					
Solderability	Per EIAJ-STD-002					
Reflow Soldering Conditions	See solder profile, Figure 1					





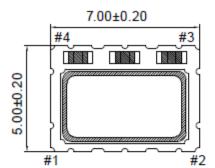
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Dimensions, Marking and Pin-Out Information:

Part Marking				
Line 1	24M000			
Line 2	•M ywwvv			

Legend					
•	Pin 1 indicator				
у	Last digit of year				
ww	Work week				
vv	Factory code				

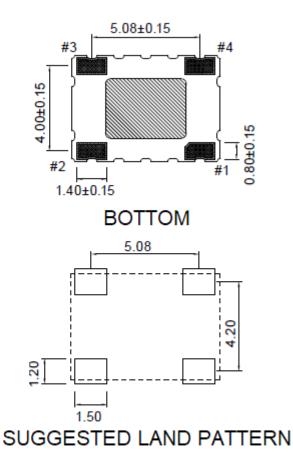
Pad	Function
1	Tuning Voltage
2	Ground
3	Output
4	+V _{DD}



TOP



SIDE VIEW



Note: A capacitor of value $0.1 \,\mu\text{F}$ between +Vdd and ground should be placed as close as possible to this device.





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Soldering Conditions:

Tape and Reel Specifications:

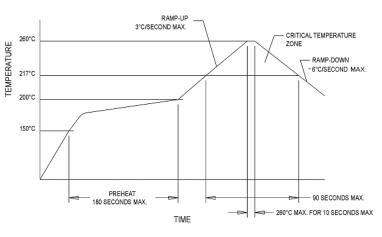


Figure 1

All units in mm

Tape and Reel Specifications												
А	В	С	D	E	F	G	Н	J	K	L	М	Ν
5.4	7.4	1.5	7.5	2.1	4	8	16	180	13.5	24.8	80	16.5

Data Sheet Revision Table

1	Date	Rev.	Orig.	Details of Revision				
	04/10/19	0	BRR	Original release.				