



SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT TCXO MtronPTI P/N M6053S015

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		20.000000		MHz	
Frequency Tolerance	$\Delta F/F$	-1.0		+1.0	ppm	@ +25°C
		Fi	requency Sta	bility		
vs Temperature	Δ F τ/F	-0.5		+0.5	ppm	Over operating temperature range.
vs Supply	$\Delta F_{VDD}/F$	-0.2		+0.2	ppm	For ±10% voltage change
vs Output Load	$\Delta F_{LOAD}/F$	-0.2		+0.2	ppm	For ±10% load change
			Output			
Output Type		HCMOS 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}	HCMOS load
Logic "0" Level	V _{OL}			10	% V _{dd}	HCMOS load
Rise/Fall Time	T _R /T _F			7	nS	From 10% to 90% V _{DD}
Startup Time	Τ _{SU}			10	mS	
		Addi	tional Specifi	ications		
Phase Noise				-150	dBc/Hz	@ 10 kHz
		Supply Volt	tage & Power	Consumpt	ion	
Operating Voltage	V _{DD}	3.135	3.300	3.465	V	
Operating Current	I _{DD}			5.5	mA	

Environmental Conditions:

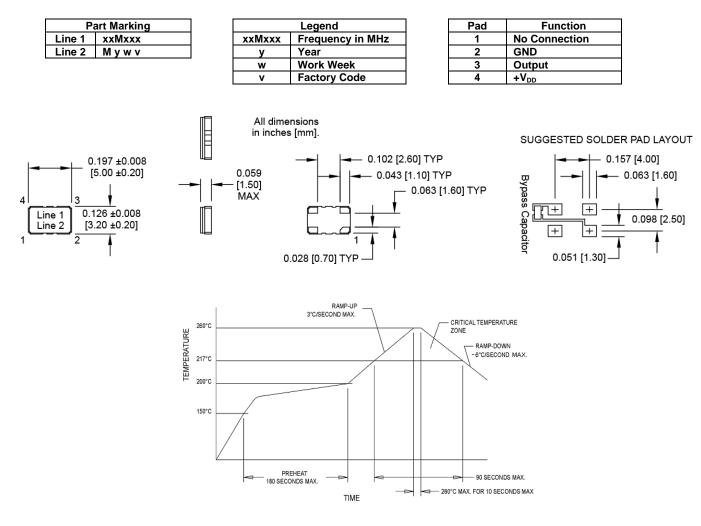
Operating Temperature	T _A	-30		+60	°C		
Storage Temperature	Ts	-40		+90	°C		
Mechanical Shock	Per MIL-ST	Per MIL-STD-202, Method 213 (2000 g, 0.3 ms duration, ½ sine wave)					
Vibration	Per MIL-ST	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Hermeticity	Per MIL-STD-202, Method 112 (1x10-8 atm.cc/s of helium) (Crystal unit only)						
Solderability	Per EIAJ-STD-002						
Max. Soldering Conditions	See solder profile, Figure 1						
Package Type	4-pad 3.2 x 5.0 x 1.5 mm, Ceramic Leadless Chip Carrier (M6053 Series)						





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Mechanical, Marking and Layout Information:





Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
08/11/15	0	MM	Original Release.	
02/26/16	А	MM	Updated operating temperature range.	