This product has been replaced by the M623x Series.



1703 E. Highway 50 Yankton, SD 57078 USA

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Website: www.mtronpti.com

SPECIFICATION FOR SMT TCXO MtronPTI P/N M6131S033

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		80.000000		MHz	
		Fre	quency Stabil	lities		
Initial Tolerance		-1.0		+1.0	ppm	@ +25°C
	ΔF/F	-2.5		+2.5	ppm	Over -40°C to +85°C range. (Relative to frequency @+25°C)
vs. Temperature	ΔF/F	-10		+10		over -55°C to -40°C range (Relative to frequency @+25°C)
	ΔF/F	-10		+10		over +85°C to +100°C range (Relative to frequency @+25°C)
vs. Supply				±0.4	ppm	For 5% supply variation
vs. Load				±0.3	ppm	For 5% load variation
			Output			
Output Type		LVCMOS				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	45	50	55	%	@ 50% of V _{DD}
Output Logic Levels	V_{OL}			10	% Vcc	
Output Level	Voн	90			% Vcc	
Rise/Fall Time				4	ns	Ref. 10% and 90%
	Additional Specifications					
			-74	-70		@ 10 Hz
CCD Dhasa Naisa			-102	-100	dBc/Hz	@ 100 Hz
SSB Phase Noise (Under Static Conditions)			-127	-125		@ 1 kHz
(Orider Static Conditions)			-148	-145		@ 10 kHz
			-155	-151		@ 100 kHz
			-158	-154		@ 1 MHz
Supply Voltage & Power Consumption						
Operating Voltage	V_{DD}	3.135	3.3	3.465	V _{DC}	
Operating Current	I _{DD}			30	mA	

Environmental & Mechanical Requirements:

Operating Temperature	TA	-55		+100	°C	
Storage Temperature	Ts	-55		+125	°C	
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6msec duration, ½ sinewave)					
Vibration	Per MIL-S	Per MIL-STD-202, Method 201 & 204 Condition D (20 g's from 10-2000Hz)				
Solderability	Per EIAJ-S	Per EIAJ-STD-002				
Max. Soldering Conditions	See solder	profile, Figure	e 1			
Package Type	4-Pad FR-	4				
Pad Termination	ENIG over Cu					



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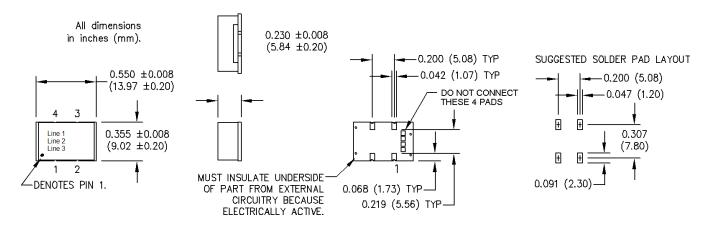
SPECIFICATION FOR SMT TCXO MtronPTI P/N M6131S033

Mechanical, Marking and Layout Information:

Pad	Function		
1	N/C		
2	Ground		
3	Output		
4	+V _{DD}		

Part Marking			
Line 1	M6131S033		
Line 2	80M0000		
Line 3	MtronPTI (yyww)		

Legend			
уу	Year		
ww	Week		



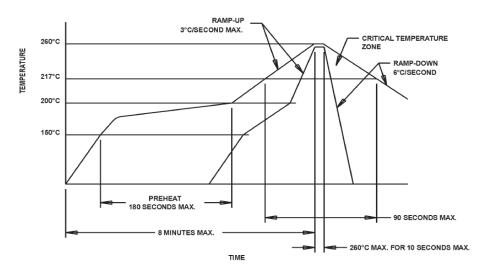


Figure 1

Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision			
09/25/18	0	MM	Original Release.			
11/11/19	Α	MM	Added customer part number.			
12/17/19	В	MM	Updated stability			
05/05/20	С	MM	Updated operating temperature range from +105 to +100C.			