# This product has been replaced by the M623x Series.



1703 E. Highway 50 Yankton, SD 57078 USA

Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709

Website: www.mtronpti.com



## SPECIFICATION FOR SMT TCXO MtronPTI P/N M6131S034

### **Electrical Specifications:**

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		107.100000		MHz	
		Fre	equency Stabilit	ies		
Overall Stability	ΔF/F	-4.0		+4.0	ppm	Includes deviation over Operating Temperature, supply voltage, load, and 10 year aging @ +25°C.
vs Temperature		-2.0		+2.0	ppm	Includes initial frequency & deviation over -55°C to +85°C
			Output		_	
Output Type		H	CMOS Compatib			
Output Load				10    1	pF/KΩ	± 10 %
Symmetry (duty cycle)	T <sub>DC</sub>	45	50	55	%	@ 50% of VDD
Output Logic Levels	Vol			20	% Vcc	
Output Level	Voн	80			% Vcc	
Rise/Fall Time				3	nS	Ref. 20% and 80%
		Addi	tional Specifica	tions		
				-65		@ 10 Hz
SSB Phase Noise (Under Static Conditions)				-90		@ 100 Hz
				-115	dBc/Hz	@ 1 kHz
				-125		@ 10 kHz
				-130		@ 100 kHz
				-140		@ 1 MHz
	S	upply Volt	age & Power C	onsumptio	n	
Operating Voltage	$V_{DD}$	3.0	3.3	3.6	V <sub>DC</sub>	
Operating Current	I <sub>DD</sub>			30	mA	

## **Environmental & Mechanical Requirements:**

Operating Temperature	TA	-55		+85	°C	
Storage Temperature	Ts	-65		+125	°C	
Mechanical Shock	Per DO-10	60 (TBD)				·
Vibration	Per DO-10	60 (TBD)				
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)		. dwell, 10 cycles)			
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solde	r profile, Fig	ure 1			
Package Type	4-Pad FR-4 non-hermetically sealed,					
Pad Termination	ENIG over Cu					



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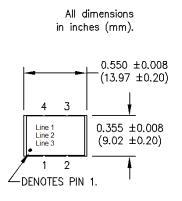
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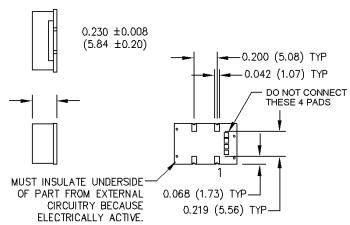
#### **Mechanical, Marking and Layout Information:**

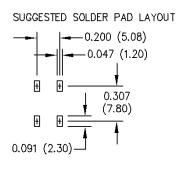
Pad	Function
1	No Connect
2	Ground
3	Output
4	+V <sub>DD</sub>

Part Marking			
Line 1	M6131S034		
Line 2	107M1000		
Line 3	MtronPTI (yyww)		

Legend			
уу	Year		
ww	Week		







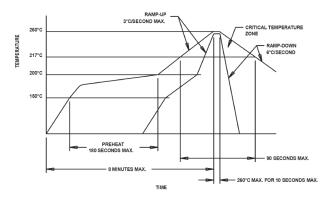


Figure 1

#### **Data Sheet Revision Table:**

Date	Rev.	Author	Details of Revision
2/4/19	0	BRR	Original Release.
2/5/19	Α	MM	Updated device height.
02/11/19	В	MM	Updated stability and rise/fall time specifications.
02/18/19	С	MM	Updated overall stability specification.