



SPECIFICATION FOR SMT VCXO

MtronPTI P/N: M3006S269

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _o		25.000000		MHz	V _c = +1.65 V @ +25°C
Frequency Tolerance		-20		+20	ppm	V _c = +1.65 V @ +25°C
Frequency Stability	ΔF/F	-20		+20	ppm	deviation over temperature
Operating Temperature	T _A	-20		+85	°C	
Storage Temperature	T _S	-40		+85	°C	
Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
Operating Current	I _{DD}			30	mA	
Output Type		HCMOS Compatible				
Output Load		15			pF	
Symmetry (duty cycle)	T _{DC}	40		60	%	½ V _{DD}
Logic "1" Level	V _{OH}	2.7			V	HCMOS load
Logic "0" Level	V _{OL}			0.3	V	HCMOS load
Rise/Fall Time	T _{R/T_F}			8	ns	From 20% to 80% V _{DD}
Control Voltage (Pad 1)	V _c	0		3.3	V	+1.65 V for center frequency
Pullability		-100		+100	ppm	Over Control Voltage Range
Linearity		-20		+20	%	Positive slope
Modulation Bandwidth		10			kHz	(-3 dB) V _c = 1.65 V
Input Impedance (Pad 1)		50			KΩ	

Environmental & Mechanical Requirements:

Mechanical 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 10-2000 Hz)
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)
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package Type	6-pad 5 X 7 X 1.9 mm leadless ceramic. RoHS compliant.



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Dimensions, Pin Out, & Marking Information:

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

Part Marking	
Line 1	M3006S269
Line 2	25M000
Line 3	M yywwvv

Legend	
yy	Year
ww	Work week
vv	Factory code

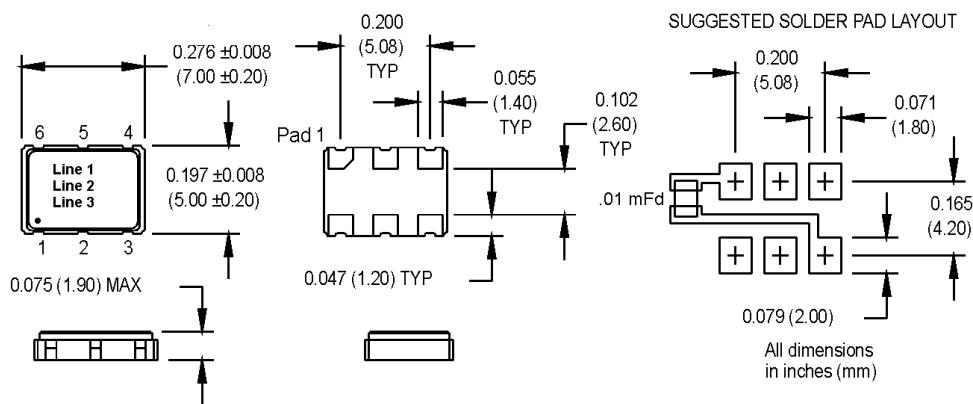
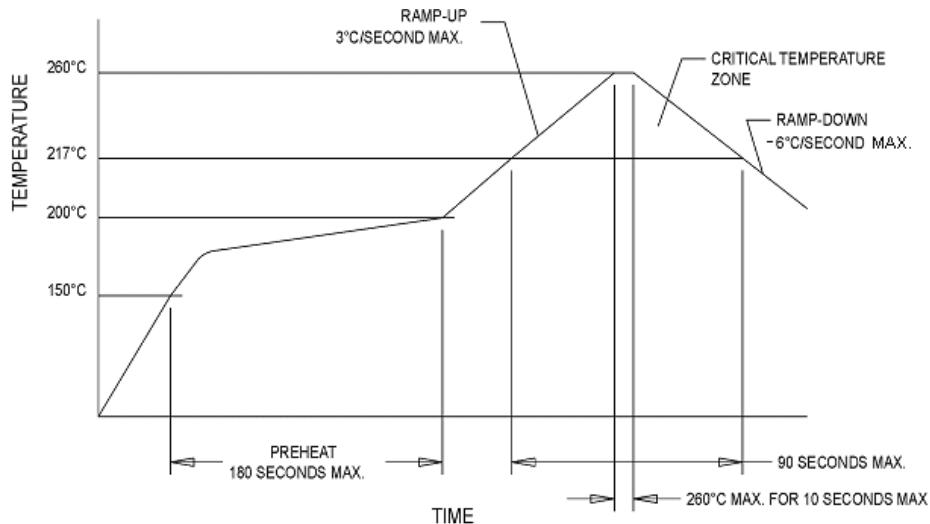


Figure 1



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
3/15/12	0	TOY	Original release.