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 VCTCXO
MtronPTI P/N M6056S006

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F_R		40.000000		MHz	
Frequency Tolerance	ΔF/F	-1.0		+1.0	ppm	@ +25°C, Initial
	ΔF/F	-1.5		+1.5	ppm	@ +25°C, after two reflow soldering profiles
Frequency Stability	$\Delta F_T/F$	-1.0		+1.0	ppm	Over Operating Temperature
Frequency Vs. Load	$\Delta F_{LOAD}/F$	-0.2		+0.2	ppm	For 10% load change
Frequency Vs. Supply	$\Delta F_{VDD}/F$	-0.2		+0.2	ppm	For 10% voltage change
Frequency Vs. Aging		-1.0		+1.0	ppm	Per year @ 25°C
Operating Temperature	T_A	-40		+85	°C	
Operating Voltage	V_{DD}	2.85	3.0	3.15	V	
Operating Current	I_{DD}			2.0	mA	
Output Type		Clipped Sine wave				
Output Load		10 KΩ || 10 pF				
Output Level		0.8			V_{pk-pk}	
Control Voltage Range	V_{CT}	0.5	1.5	2.5		Pad 1
Tuning Range		±5		±12	ppm	Pad 1
Phase Noise			-75		dBc/Hz	@ 10 Hz
			-105		dBc/Hz	@ 100Hz
			-127		dBc/Hz	@ 1 kHz
			-144		dBc/Hz	@ 10 kHz

Environmental Conditions:

Mechanical Shock	Per MIL-STD-202, Method 213, (2000 g's, 0.3 ms duration, ½ sinewave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 20-2000 Hz)
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10^{-8} atm cc/s of Helium)
Storage Temperature	-40°C to +90°C
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	See solder profile, Figure 1
Package	4-pad 2.5 X 3.2 X 1.0 mm leadless ceramic. RoHS compliant.

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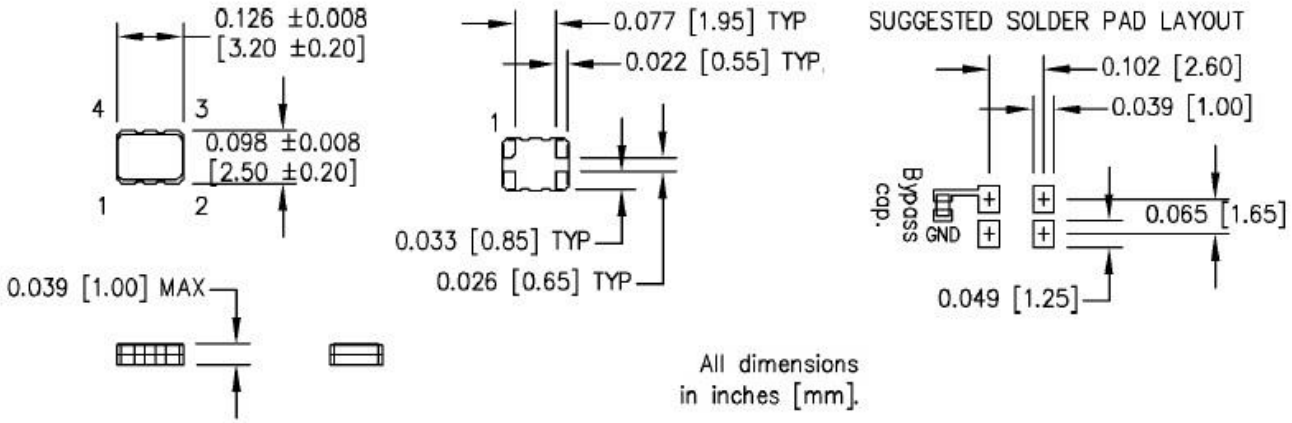
Dimensions, Marking, and Pin Out Information:

Part Marking	
Line 1	4000 YWW
Line 2	.M YWW

Legend	
Y	Year
WW	Work Week

Pin	Function
1	Control Voltage
2	Ground
3	Output
4	$+V_{DD}$



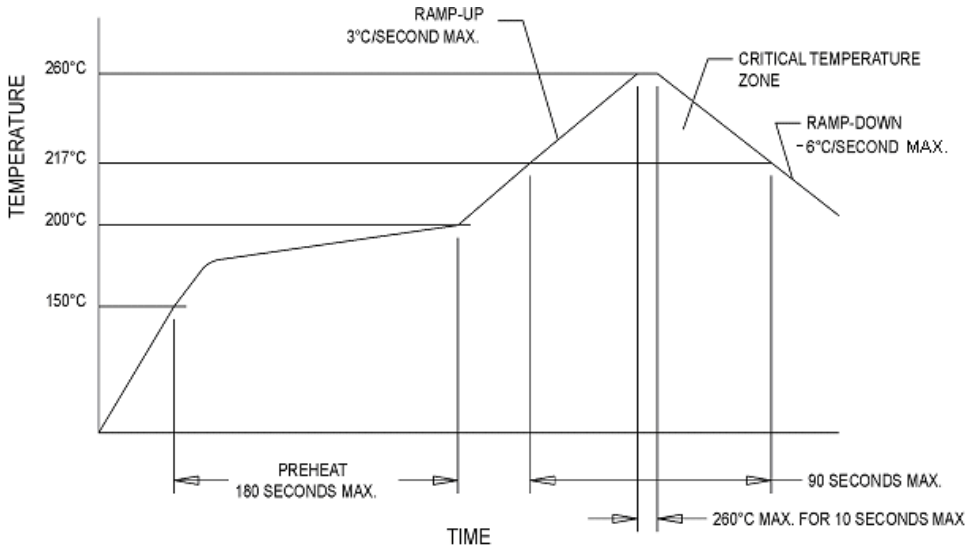


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
11/05/13	0	HHG	Original release.