P.O. Box 630 100 Douglas Ave. Yankton, SD 57078 USA
Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709
Website: www.mtronpti.com

SPECIFICATION FOR HALF-SIZE 3.3 V OSCILLATOR
MtronPTI P/N M2004S037

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F_O		70.656000		MHz	
Frequency Stability	ΔF/F	-25		+25	ppm	Includes initial tolerance, deviation over temperature, shock, vibration, load, supply voltage, 1st year aging @ 25°C
Operating Temperature	T_A	-40		+85	°C	
Storage Temperature	T_S	-55		+125	°C	
Aging		-5		+5	ppm	Per year @ 25°C
Operating Voltage	V_{DD}	3.0	3.3	3.6	V	
Operating Current	I_{DD}			40	mA	
Output Type			HCMOS			
Output Load				15	pF	
Symmetry (duty cycle)	T_{DC}	40		60	%	Ref to ½ V_{DD}
Logic "1" Level	V_{OH}	90% V_{DD}			V	HCMOS load
Logic "0" Level	V_{OL}			10% V_{DD}	V	HCMOS load
Rise/Fall Time	T_R/T_F			6	nS	Measured @ 20% to 80% of waveform
Tri-state Enable Logic		80% V_{DD} or N/C			V	Pad 1
Tri-state Disable Logic				20% V_{DD}	V	Pad 1. Output to high-Z
Random Jitter	R_J			18	pS RMS	1-Sigma

Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sine wave)
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)
Fine Leak Test	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 below.
Package Type	8-Pin DIP compatible resistance weld. RoHS 6 compliant.

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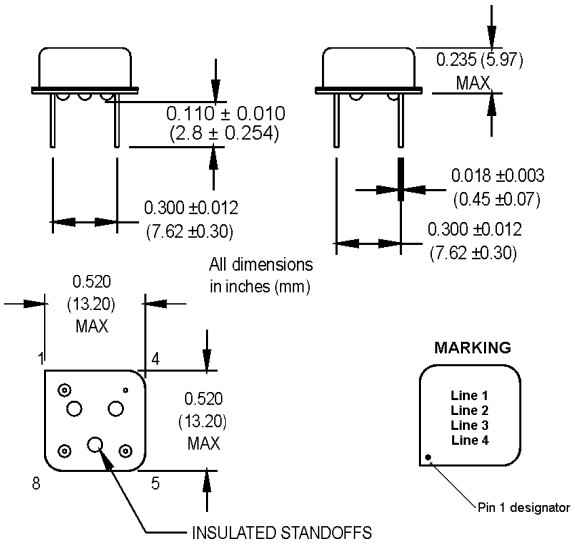
Dimensions, Marking, and Pin Out Information:

Pad	Function
1	Tri-state
2	Ground
3	Output
4	$+V_{DD}$

Part Marking	
Line 1	M2004S037
Line 2	70.6560M
Line 3	MTRONPTI
Line 4	(yyww)

Legend	
yy	Year
ww	Work Week



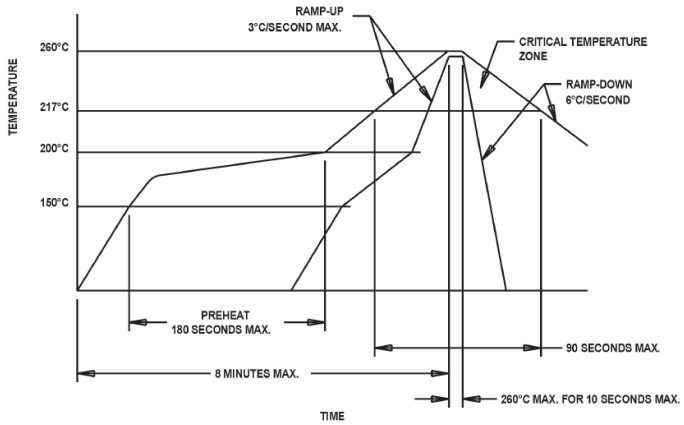


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
08/20/12	0	LEO	Original release.
08/28/12	A	LEO	Fixed drawing to reflect lead cut.