

SPECIFICATION FOR 1.8 V HCMOS COMPATIBLE SMT OSCILLATOR MtronPTI P/N M2532S098

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		64.000000		MHz	
Initial Frequency Stability	ΔF/F	-25		+25	ppm	Calibration & deviation over temperature at time of shipment.
Stability		-25		+25		Over Operating Temp Range
Operating Temperature	T _A	-20		+70	°C	
Storage Temperature	T _S	-55		+125	°C	
Aging		-5		+5	ppm	Per year @ +25 °C
Operating Voltage	V _{DD}	1.62	1.8	1.98	V	
Operating Current	I _{DD}			5	mA	
Output Type		HCMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	t _{DC}	40		60	%	Ref to ½ V _{DD}
Logic "1" Level	V _{OH}	90			% V _{DD}	HCMOS load
Logic "0" Level	V _{OL}			10	% V _{DD}	HCMOS load
Rise/Fall Time	t _R /t _F			10	ns	From 10% to 90% V _{DD}
Random Jitter	R _J		4	10	ps	1-Sigma
Startup Time	t _{SU}			10	ms	
Tristate Function		Input Logic "1" or floating: output enabled Input Logic "0": output disabled to high-Z				Pad 1

Environmental & Mechanical Requirements:

Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g, 6 ms duration, ½ sine wave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g from 10 Hz to 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	4-pad 2.5 x 3.2 x 1.1 mm leadless ceramic.

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Dimensions, Marking and Pin-Out Information:

Pad	Function
1	Tristate
2	Ground
3	Output
4	+V _{DD}

Part Marking	
Line 1	64M0
Line 2	M (yw)

Legend	
y	Year
w	Work week

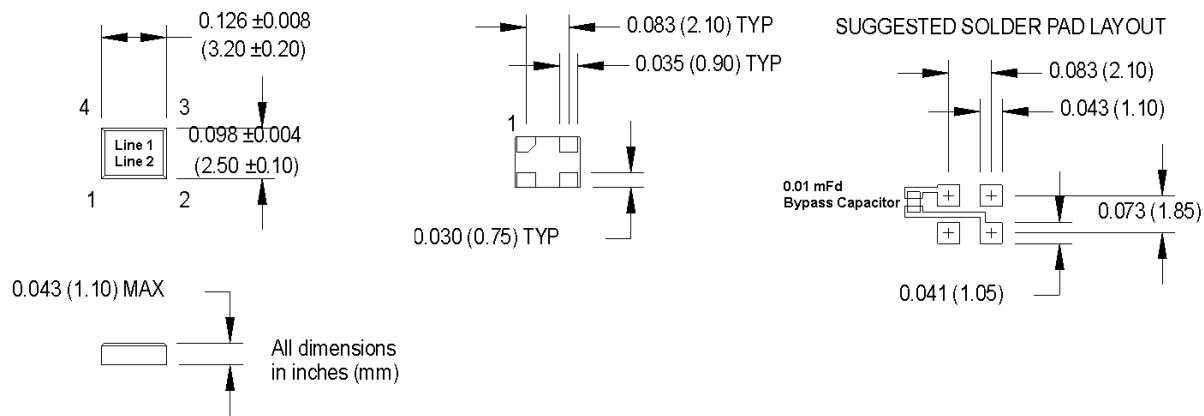
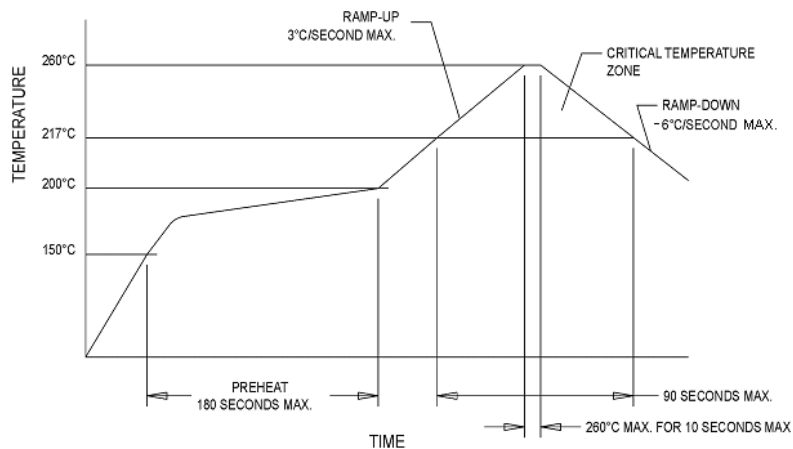


Figure 1



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
05/10/13	0	LEO	Original release.