

SPECIFICATION FOR HCMOS COMPATIBLE SMT OSCILLATOR MtronPTI P/N M2532S105

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		24.576000		MHz	
Frequency Tolerance		-10		+10	ppm	@ 25°C
Frequency Stability	ΔF/F	-20		+20	ppm	Includes tolerance @ +25°C, deviation over operating temperature and 1 st year aging @ 25°C.
Operating Temperature	T _A	-20		+70	°C	
Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
Operating Current	I _{DD}			20	mA	
Output Type		HCMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	45		55	%	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	From 10% to 90% V _{DD}
Tri-state Enable Logic		80% V _{DD} or N/C			V	Pad 1. Clock Signal Output
Tri-state Disable Logic				20% V _{DD}	V	Pad 1. Output to high-Z
Random Jitter			4	10	pS RMS	1 Sigma
Start-Up Time				10	mS	

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)
Storage Temperature	-55°C to 125°C
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. RoHS compliant.

SPECIFICATION FOR HCMOS COMPATIBLE SMT OSCILLATOR MtronPTI P/N M2532S105

Dimensions, Marking, and Pin Out Information:

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

Part Marking	
Line 1	24M576
Line 2	M y ww v

Legend	
y	Year
ww	Work week
v	Factory Code

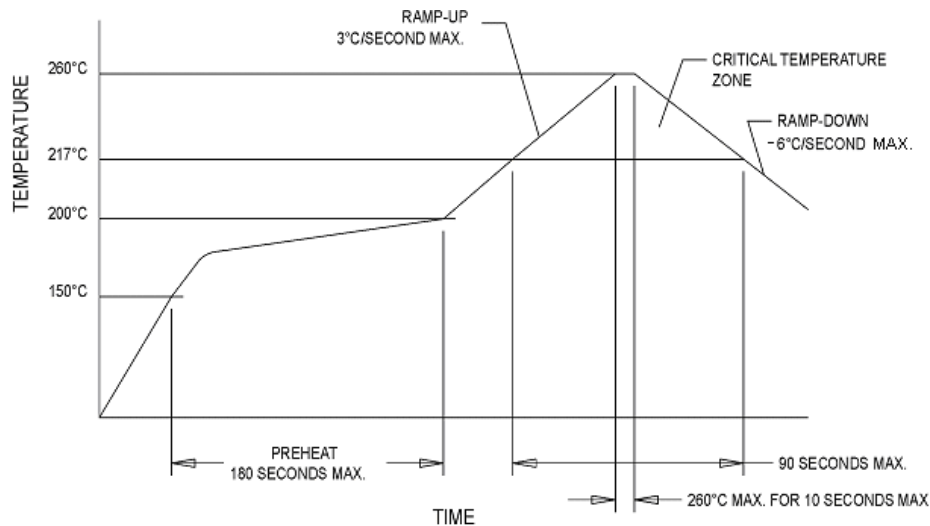
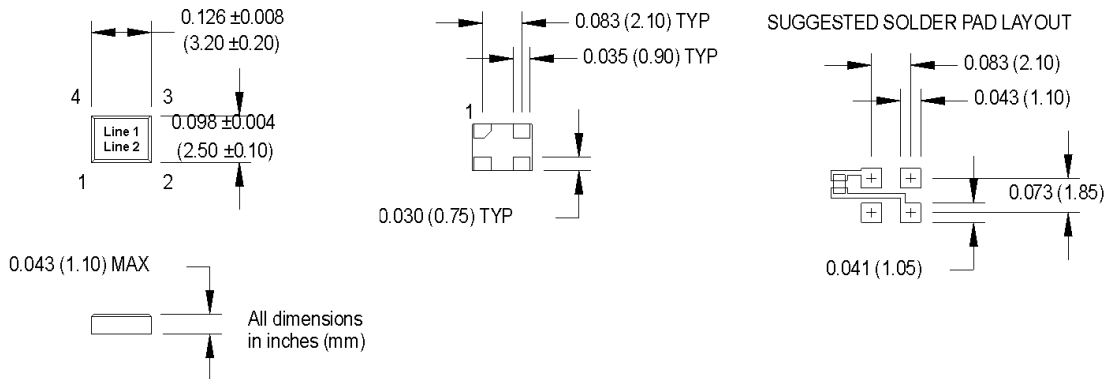


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
7/24/13	0	MM	Original release.