

## SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT OSCILLATOR MtronPTI Part Number M2532S119

### I. General & Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions	
Frequency of Operation	F <sub>o</sub>		25.000000		MHz		
<b>Frequency Stability</b>							
vs. Temperature	$\Delta F/F$	-30		+30	ppm	Includes initial tolerance @ +25°C and deviation over the operating temperature range	
Aging		-3		+3	ppm	1 <sup>st</sup> year	
		-2		+2	ppm	Thereafter (per year)	
<b>RF Output</b>							
Output Type		HCMOS/TTL Compatible					
Output Load				15	pF		
Symmetry (duty cycle)	T <sub>DC</sub>	45	50	55	%	Ref to ½ V <sub>DD</sub>	
Logic "1" Level	V <sub>OH</sub>	90% V <sub>DD</sub>			V	HCMOS load	
Logic "0" Level	V <sub>OL</sub>				10% V <sub>DD</sub>	HCMOS load	
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>				5	ns	10% to 90% V <sub>DD</sub> HCMOS load
Start-Up Time					10	ms	
Tristate Function		80% V <sub>DD</sub> or N/C			V	Pad 1: Output Enabled	
					20% V <sub>DD</sub>	V	Pad 1: Output Disabled to high-Z
<b>Supply Voltage &amp; Power Consumption</b>							
Operating Voltage	V <sub>DD</sub>	1.62	1.8	1.98	V		
Operating Current	I <sub>DD</sub>				10	mA	
<b>Other Parameters</b>							
Phase Jitter (RMS)	Φ <sub>J</sub>	0.200		0.250	pS	12KHz to 5MHz	

### II. Environmental & Mechanical Requirements:

Operating Temperature	T <sub>A</sub>	-40		+85	°C	
Storage Temperature	T <sub>S</sub>	-55		+125	°C	
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)					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of Helium)					
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.					

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### III. Dimensions, Marking, and Pin Out Information:

Pad	Function
1	Tristate
2	Ground
3	Output
4	+V <sub>DD</sub>

Part Marking	
Line 1	25M0000
Line 2	M y ww v

Legend	
y	Year
ww	Work week
v	Factory code

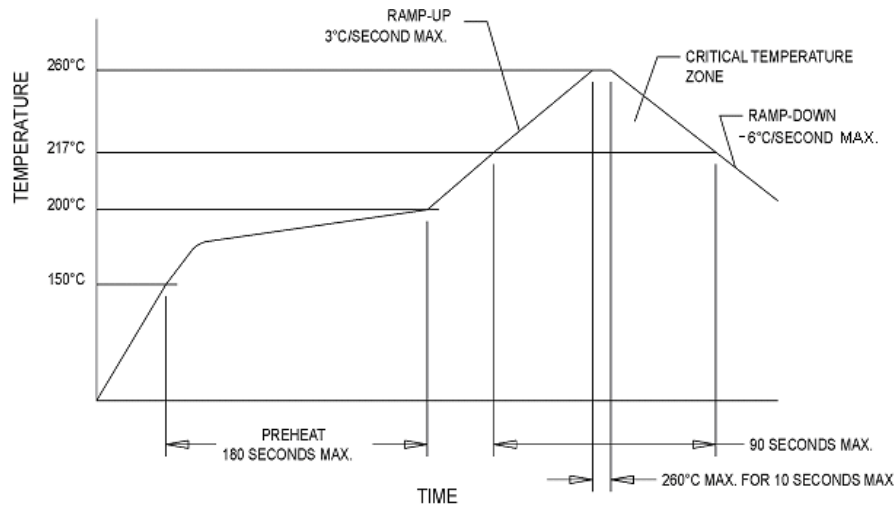
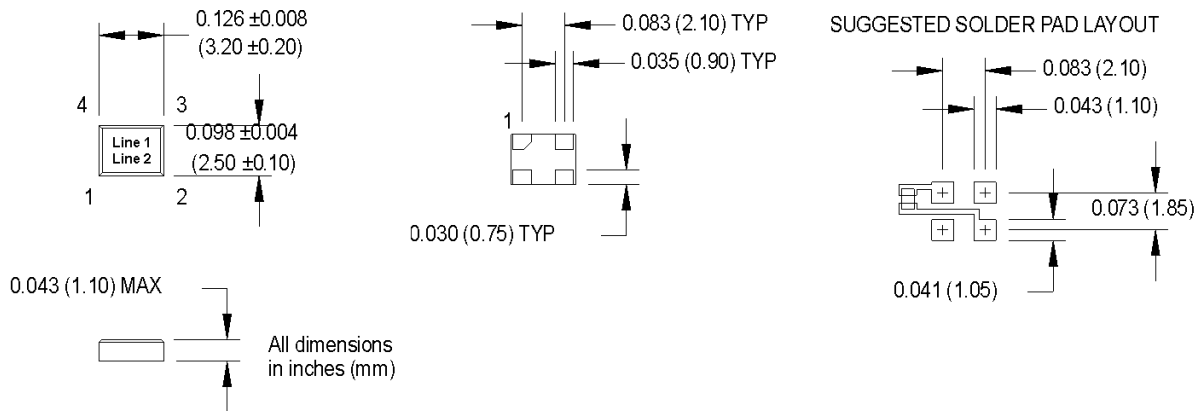


Figure 1

### IV. Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
11/29/16	0	MM	Original release
1/26/17	A	MM	Added customer part number