

## SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT OSCILLATOR

### MtronPTI P/N: M2532S135

#### General & Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions	
Frequency of Operation	F <sub>O</sub>		7.372800		MHz		
<b>Frequency Stability</b>							
Frequency Stability	ΔF/F	-50		+50	ppm	Includes calibration at +25°C plus deviation vs. temperature.	
Frequency Aging	ΔF/F	-5		+5	ppm	Per year @ +25°C	
<b>RF Output</b>							
Output Type		HCMOS 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>				10	ns	From 10% to 90% V <sub>DD</sub>
Start-Up Time					10	ms	
Tristate Logic "1"		70% V <sub>DD</sub> or N/C			V	Pad 1: Output Enabled	
Tristate Logic "0"					30% V <sub>DD</sub>	Pad 1: Output Disabled to high impedance	
<b>Supply Voltage &amp; Power Consumption</b>							
Operating Voltage	V <sub>DD</sub>	3.135	3.300	3.465	V		
Operating Current	I <sub>DD</sub>				20	mA	

#### 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)					
Moisture Sensitivity Level (MSL)	MSL 1					
Solderability	Per EIAJ-STD-002					
Max. Soldering Conditions	See solder profile, Figure 1					
Package Type	4-pad 2.5 X 3.2 X 1.2 mm leadless ceramic. RoHS compliant.					

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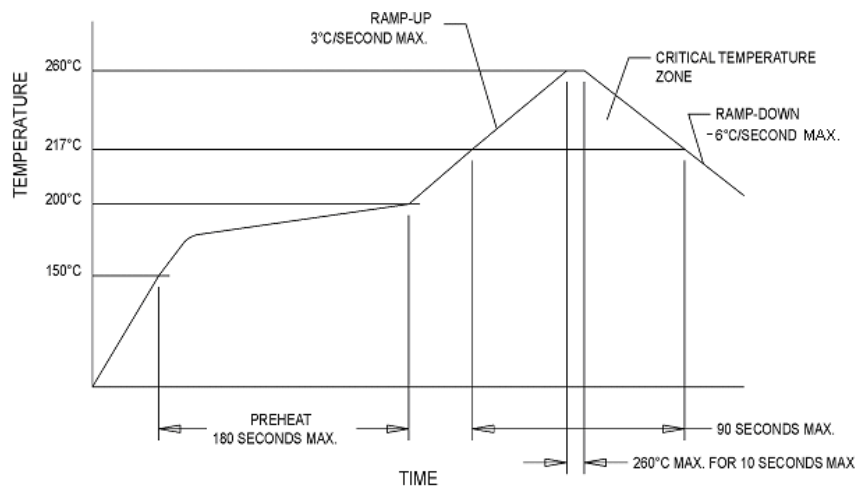
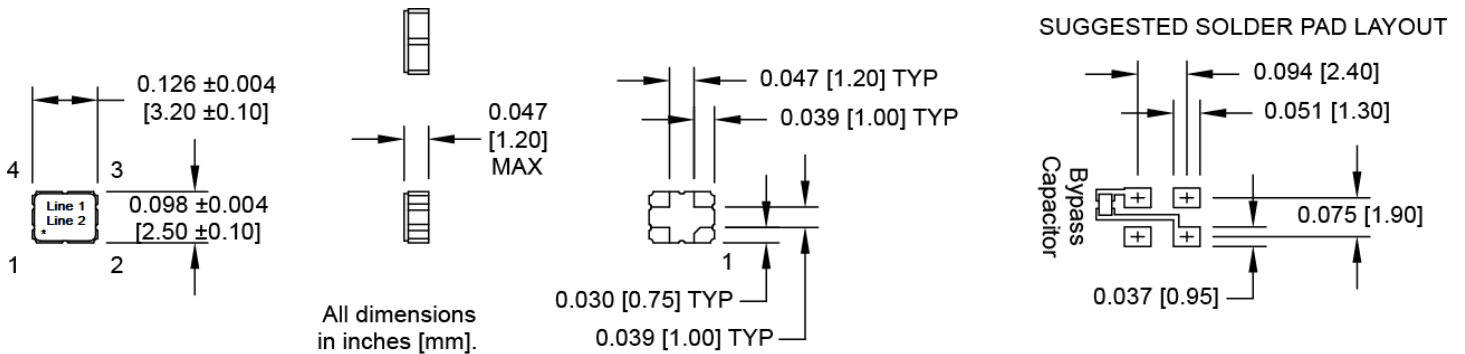
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#### Dimensions, Marking, and Pin Out Information:

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

Part Marking	
Line 1	7M3728
Line 2	M y m v

Legend	
y	Last digit of year
m	Month letter code
v	Factory code



**Figure 1**

#### Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
10/25/18	0	MM	Original release