

## SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT OSCILLATOR MtronPTI Part Number M2532S134

### I. General & Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F <sub>O</sub>		32.768000		kHz	
<b>Frequency Stability</b>						
vs. Temperature	ΔF/F	-50		+50	ppm	Includes tolerance @ +25°C, deviation vs. temperature, deviation vs. supply voltage, shock, vibration, reflow soldering, and 1 <sup>st</sup> year aging.
<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>	V <sub>DD</sub> -0.4			V	HCMOS load
Logic "0" Level	V <sub>OL</sub>			0.4	V	HCMOS load
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>			25	ns	10% to 90% V <sub>DD</sub> HCMOS load
Tristate (Standby) Control		70% V <sub>DD</sub> or N/C			V	Pad 1: Output Enabled
				30% V <sub>DD</sub>	V	Pad 1: Output Disabled to high-Z
Start-Up Time				10	ms	
<b>Supply Voltage &amp; Power Consumption</b>						
Operating Voltage	V <sub>DD</sub>	2.97	3.30	3.63	V	
Operating Current	I <sub>DD</sub>			200	uA	
Standby Current				10	uA	T <sub>A</sub> = +25°C

### II. Environmental & Mechanical Specifications:

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	MSL1					
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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### III. Dimensions, Marking, and Pin Out Information:

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

Part Marking	
Line 1	32k768
Line 2	M y m v

Legend	
*	Pad 1 indicator
y	Last digit of year
m	Month letter code
v	Factory code

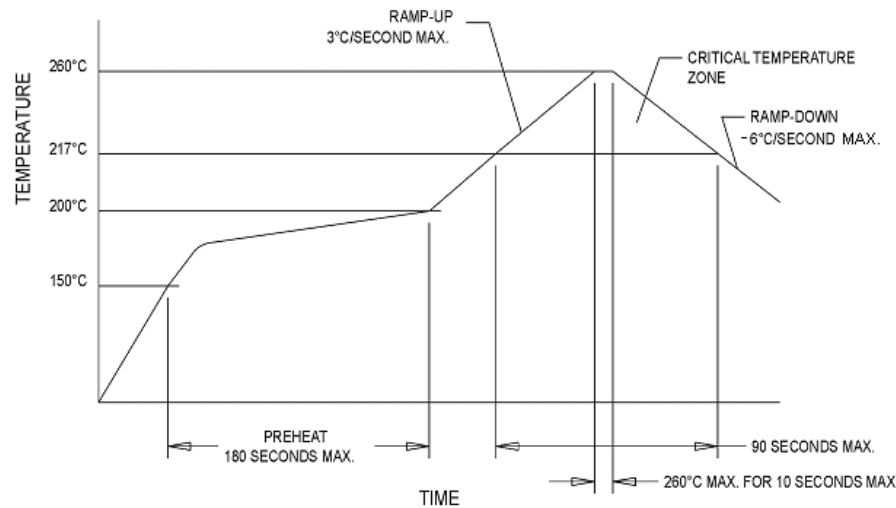
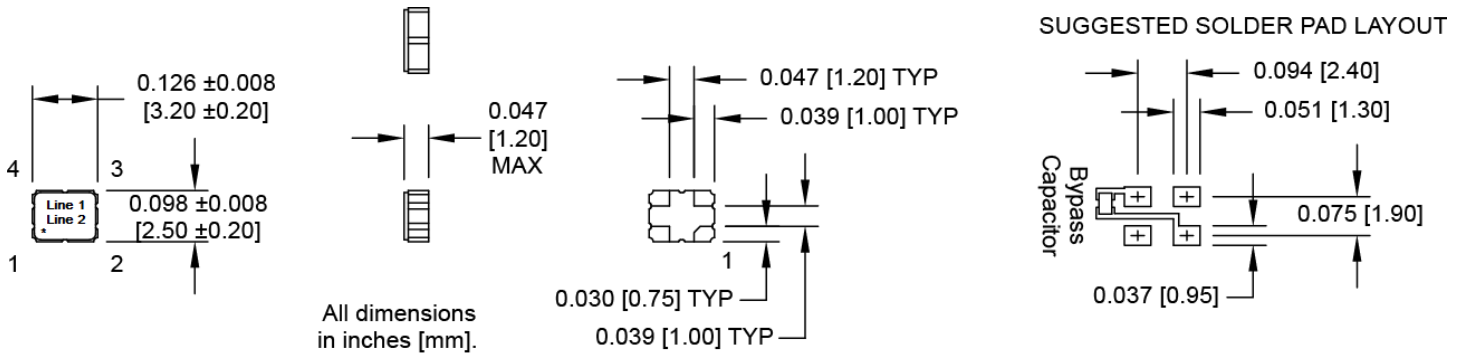


Figure 1

### IV. Datasheet Revision Table:

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