



SPECIFICATION FOR RoHS 6 COMPLIANT HCMOS SMT OSCILLATOR MtronPTI P/N: M3006S306

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		24.576000		MHz	
		Fre	quency Stal	bility		
Frequency Stability		-25		+25	ppm	Including calibration tolerance at +25C with Vc = 1.65 and deviation over operating temperature range.
			RF Output			
Output Type		HC	MOS Compa	tible		
Output Load			15 pF HCMO	S		
Symmetry (duty cycle)	T _{DC}	45		55	%	@ 50% Vdd with HCMOS load
Logic Level "1"		90% V _{DD}			V	
Logic Level "0"				$10\% V_{DD}$	V	
Rise/Fall Time	T _R /T _F		2	6	ns	From 10% to 90% V _{DD}
Tristate Function		70% V _{DD} or N/C			V	Pad 2: Outputs enabled
				30% V _{DD}	V	Pad 2: Output disabled
	·	Freq	uency Adjus	tment	•	· · ·
Pullability		±100			ppm	Referenced to frequency with $Vc = 1.65$
Control Voltage		0.30	1.65	3.00	V	Pad 1
Linearity				10	%	
Modulation Bandwidth	fm	10			kHz	-3 dB
	Su	pply Volta	ge & Power	Consumpt	ion	
Operating Voltage	Vcc	2.97	3.30	3.63	V	
Operating Current	Icc			20	mA	

Environmental & Packaging Requirements:

Operating Temperature	TA	0		+70	°C	
Storage Temperature	TS -55 +125 °C					
Mechanical Shock	Per MIL-S	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)				
Vibration	Per MIL-S	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)				
Thermal Cycle	Per MIL-S	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)				
Hermeticity	Per MIL-S	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	5 X 7 mm 6-pad leadless ceramic. RoHS compliant.					





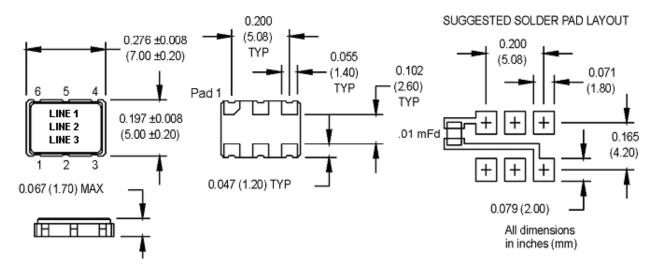
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Marking, Pin Out & Dimensions:

Pad	Function
1	Control Voltage
2	Tristate Control
3	Ground
4	Output
5	No connection
6	+V _{DD}

Part Marking		
Line 1	M3006S306	
Line 2	24M5760	
Line 3	M yy ww vv	

Legend				
уу	Year			
ww	Work week			
vv	Factory code			



Soldering Conditions:

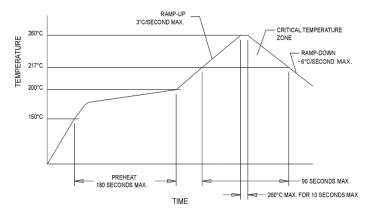


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
06/07/17	0	MM	Original release