



SPECIFICATION FOR RoHS 6 COMPLIANT CMOS SMT OSCILLATOR MtronPTI P/N: M3006S308

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		49.152000		MHz	
	•	Fre	quency Stal	bility		
Frequency Stability		-50		+50	ppm	Inclusive of initial tolerance, operating temperature, voltage & load variation, shock, vibration, and aging
			RF Output			
Output Type		CMC	DS/TTL Comp	atible		
Output Load			15		pF	
Symmetry (duty cycle)	T _{DC}	45		55	%	@ 50% V _{DD}
Logic Level "1"		V _{DD} -0.33			V	
Logic Level "0"				0.33	V	
Rise/Fall Time	T _R /T _F			5	ns	Ref. 20% to 80% V _{DD}
Tristate Function		70% V _{DD} or N/C			V	Pad 2: Output enabled
				30% V _{DD}	V	Pad 2: Output disabled to high Z
		Freq	uency Adjus	tment		•
Pullability (APR)		±50			ppm	With respect to nominal frequency at any combination of temperature, supply voltage, shock, vibration, load, and aging
Control Voltage		0.30	1.65	3.30	V	Pad 1
Linearity				10	%	
Modulation Bandwidth		10			kHz	-3 dB
	Su	pply Volta	ge & Power	Consumpt	ion	
Operating Voltage	Vcc	3.15	3.30	3.45	V	
Operating Current	Icc			25	mA	
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Phase Jitter (RMS)	ΦJ			10	ps	12KHz to 20MHz

Environmental & Packaging Requirements:

Operating Temperature	TA	-40		+85	°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, ¹ / ₂ 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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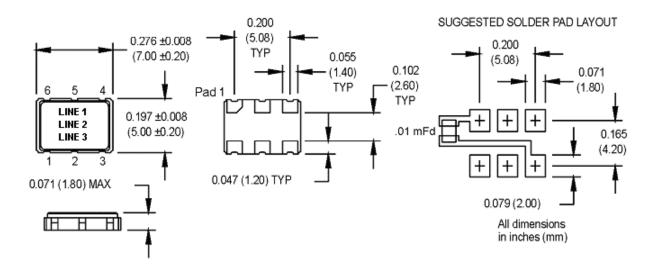
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Marking, Pin Out & Dimensions:

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

Part Marking		
Line 1	M3006S308	
Line 2	49M1520	
Line 3	M yy ww vv	

Legend				
уу	Year			
ww	Work week			
vv	Factory code			



Soldering Conditions:

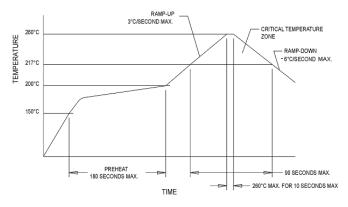


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
03-2-20	А	BRR	Original release