

Yankton, SD 57078 USA 1703 E. Highway 50 Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709

Website: www.mtronpti.com



SPECIFICATION FOR HCMOS VCXO MtronPTI P/N: M3006S303

Flectrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		57.344000		MHz	
		Fre	quency Stal	bility	•	
Frequency Stability		-50		+50	ppm	Including calibration tolerance at +25C with Vc = 1.65 and deviation over operating temperature range.
			RF Output			
Output Type		HC	CMOS Compa	tible		
Output Load			15 pF HCMOS	S		
Symmetry (duty cycle)	T _{DC}	45		55	%	@ 50% V _{DD} with HCMOS load
Logic Level "1"		90% V _{DD}			V	
Logic Level "0"				10% V _{DD}	V	
Rise/Fall Time	T _R /T _F			5	ns	From 20% to 80% V _{DD}
Start-Up Time			4	10	ms	
Tristate Function		80% V _{DD} or N/C			V	Pad 5: Outputs enabled
				20% V _{DD}	V	Pad 5: Output disabled
		Fred	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
Input Impedance	Zin	1			МΩ	Pad 1
		Supply	y Voltage &	Current		
Operating Voltage	V_{DD}	3.13	3.30	3.47	V	
Operating Current	I _{DD}			25	mA	
		0	ther Paramet	ers		
			-70			@ 10 Hz
			-100			@ 100 Hz
Phase Noise			-135		dBc/Hz	@ 1 kHz
			-155			@ 10 kHz
			-155			@ 100 kHz

Environmental & Packaging Requirements:

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Operating Temperature	TA	-40		+85	°C	
Storage Temperature	TS -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)					
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)					
Hermeticity	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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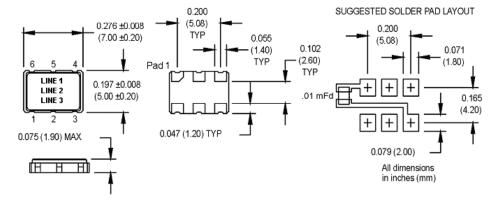
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Marking, Pin Out & Dimensions:

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

Part Marking			
Line 1	M3006S303		
Line 2	57M3440		
Line 3	M yy ww vv		

Legend			
уу	Year		
ww	Work week		
vv	Factory code		



Soldering Conditions:

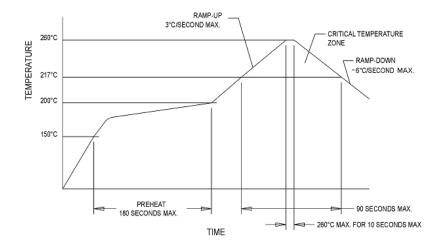


Figure 2

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision			
07/22/16	0	MM	Original release			