

SPECIFICATION FOR RoHS COMPLIANT SMT VCXO

MtronPTI P/N: M3006S274

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		24.704000		MHz	
Temperature Range and Supply						
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+125	°C	
Operating Voltage	V _{DD}	3.135	3.3	3.465	V _{DC}	
Operating Current	I _{DD}			20	mA	
Output						
Output Type		HCMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref. to ½ V _{DD}
Rise/Fall Time	T _R /T _F			5	ns	From 10% to 90% V _{DD}
Output Logic Levels	V _{OH}	90			%V _{DD}	
	V _{OL}			10	%V _{DD}	
Frequency Adjustment						
Control Voltage Range		0.3		3.0	V _{DC}	(Pad 1)
Modulation Bandwidth		10			kHz	-3 dB
Linearity				10	%	Positive monotonic slope
Input Impedance		50			kΩ	@ 10 kHz (Pad 1)
Pullability (APR)		±50			ppm	Includes initial tolerance, deviation over temperature, aging, load & supply variations, shock and vibration effects
Additional Specifications						
Tri-state Function	Logic level "1" or floating enables output. Logic level "0" disables output to high-Z.					Pad 5
Phase Noise			-70		dBc/Hz	@ 10 Hz
			-100		dBc/Hz	@ 100 Hz
			-130		dBc/Hz	@ 1 kHz
			-145		dBc/Hz	@ 10 kHz
			-150		dBc/Hz	@ 100 kHz

Environmental Conditions:

Mechanical Shock	MIL-STD-202, Method 213, Condition C.
Vibration	MIL-STD-202, Methods 201 & 204.
Hermeticity	1 x 10 ⁻⁸ atm cc/s min.
Solderability	Per EIAJ-STD-002
Max. Soldering Conditions	+240°C for 10 seconds max.
Package Type	6-pad leadless ceramic package (MV3 non-PLL type) – RoHS Compliant

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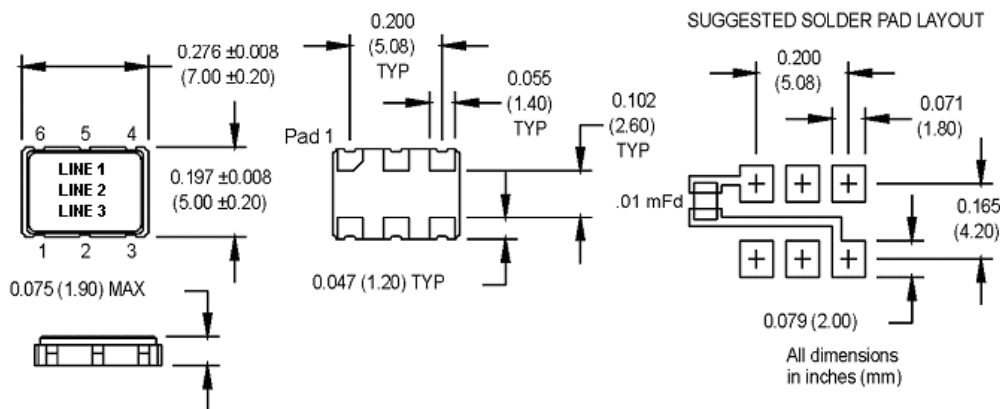
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Mechanical, Marking and Layout Information:

Pad	Function
1	Control Voltage
2	N/C
3	Ground
4	Output
5	Tristate
6	+V _{DD}

Part Marking	
Line 1	M3006S274
Line 2	24M7040
Line 3	M (yy-ww)

Legend	
yy	Year
ww	Work week



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
9/6/12	0	LEO	Original release.