

SPECIFICATION FOR RoHS COMPLIANT SMT VCXO

MtronPTI P/N: M3006S027

Electrical Specifications:

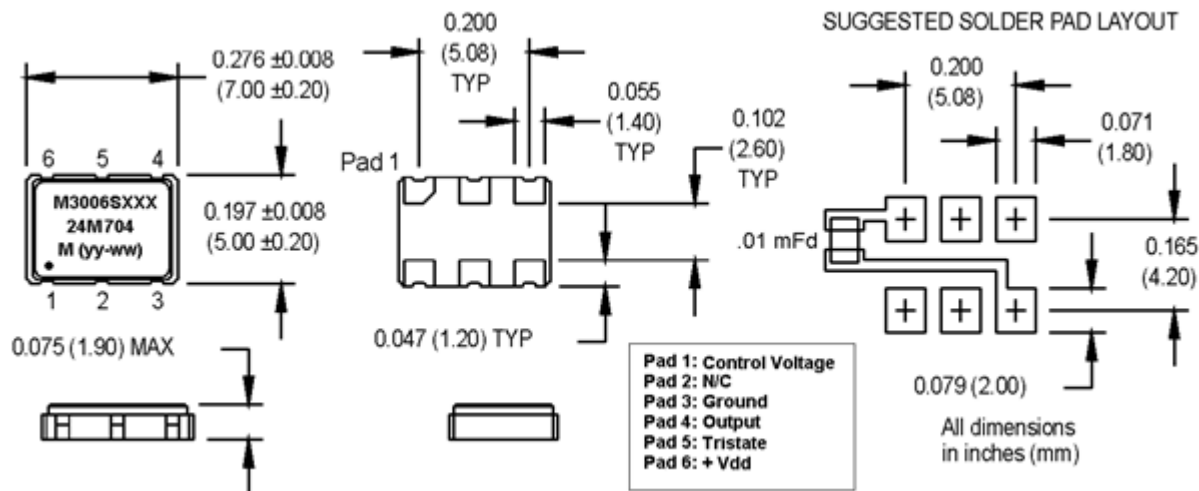
Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency of Operation	F _O		24.704000		MHz	
Pullability (APR)		±50			ppm	Includes initial tolerance, deviation over temperature, aging, load & supply variations, shock and vibration effects.
Output						
Output Type	HCMOS Compatible					
Symmetry	t _{DC}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

Environment Conditions:

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

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Dimensions and Pin-Out Information:



Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
07/03/03	0	WMJ	Original Release
06/12/13	A	LEO	Updated Customer PN. Layout Changes.