

SPECIFICATION FOR RoHS 6 COMPLIANT SMT TCXO

MtronPTI P/N: M6029S065

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F ₀		35.328000		MHz	
Frequency Tolerance		-2.0		+2.0	ppm	@ +25°C, after reflow soldering
Frequency Stability						
vs. Temperature	ΔF/F	-2.5		+2.5	ppm	Over operating temperature range
vs. Aging	ΔF/F	-1.0		+1.0	ppm	Per year @ +25°C
Frequency vs. Supply	ΔF/F			±0.3	ppm	For 5% supply variation
Frequency vs. Load	ΔF/F			±0.2	ppm	For 5% load variation
RF Output						
Output Type		HCMOS Compatible				
Output Load				15	pF	
Output Logic "0" Level				10% V _{DD}	V	
Output Logic "1" Level		90% V _{DD}			V	
Rise/Fall Time				6.5	ns	Ref. 10% to 90%
Symmetry		45		55	%	
Start-Up Time			5	10	ms	
Supply Voltage & Power Consumption						
Operating Voltage	V _{DD}	3.135	3.3	3.465	V	
Operating Current	I _{DD}			10	mA	
Other Specifications						
Phase Jitter			0.7		ps	Integrated phase jitter, 12 kHz – 20 MHz

Environmental Conditions:

Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	T _S	-55		+105	°C	
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 10-2000Hz)					
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium) (Crystal Only)					
Solderability	Per EIAJ-STD-002					
Package Type	5.0 x 7.0 x 1.9 mm, 4-pad Ceramic Leadless Chip Carrier					

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Dimensions, Marking and Pin-Out Information:

Part Marking	
Line 1	35M328
Line 2	· M yyww

Legend	
·	Pad 1 Indicator
yy	Last two digits of year
ww	Work week

Pad	Function
1	N/C
2	Ground
3	Output
4	+V _{DD}

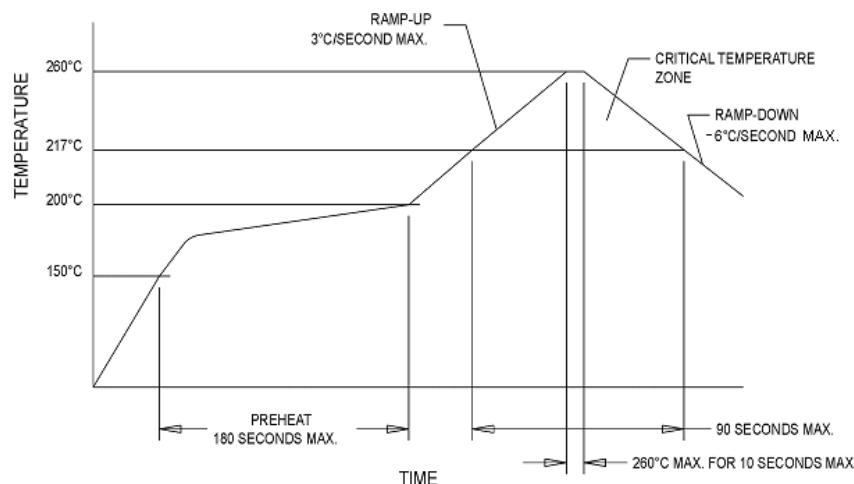
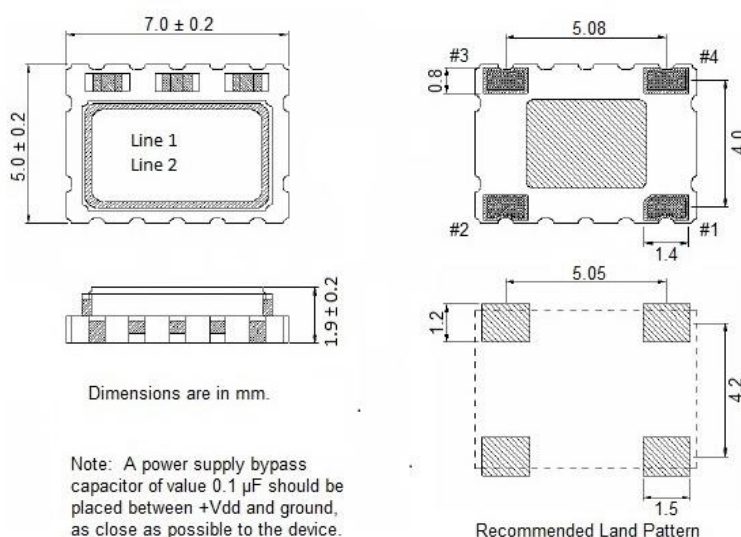


Figure 1

Data Sheet Revision Table

Date	Rev.	Orig.	Details of Revision
11/03/17	0	MM	Original release.
11/21/17	A	DCO	Revised outline drawing and marking