

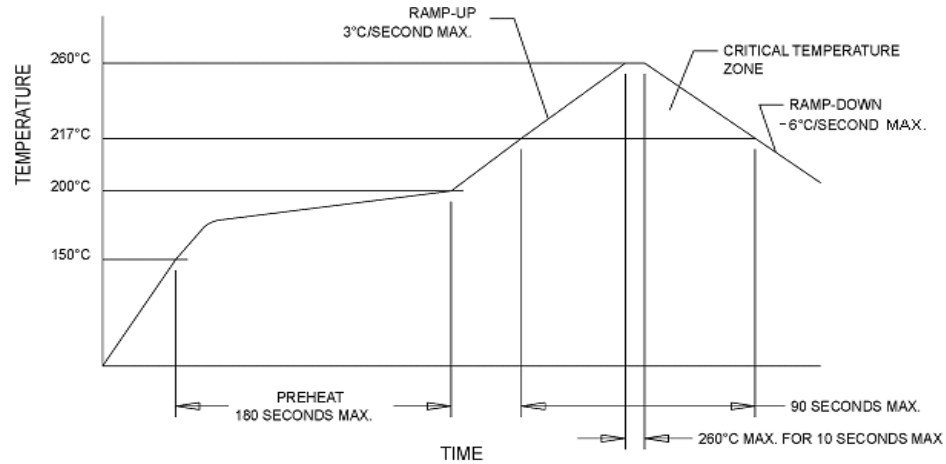
**Specification for a Sine wave Output SMD
100MHz Output with 10MHz Reference Input
OCXO MtronPTI P/N: XO8085-023sR**

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency (RF Output)	F _O		100.0000		MHz	
Frequency Stabilities						
vs. Temperature ¹	ΔF _T /F	-100		+100	ppb	Over the Operating Temperature Range
vs. Supply voltage ¹ variation		-30		+30	ppb	5% change in supply voltage
Daily Aging ¹		-5.0		+5.0	ppb	After 30-days Power On
1 Year Aging ¹		-0.5		+0.5	ppm	
20-Years Aging ¹		-1.0		+1.0	ppm	
RF External Reference (10MHz)						
RF Input Level		-3.0	0	+3.0	dBm	Customer to choose the signal Level between 0+/-3dB
RF Input Lock Range				+/- 1	ppm	10MHz External would need to be within +/- 1ppm from Nominal 10MHz to lock
RF Output(100MHz)						
Output Type		Sinewave				
Output Level			10		dBm	
Output Load			50		Ω	±10%
Additional Parameters						
Phase Noise (Under Static Conditions)				-97	dBc/Hz	10Hz Offset
				-130	dBc/Hz	100Hz Offset
				-157	dBc/Hz	1kHz Offset
				-170	dBc/Hz	10kHz Offset
				-172	dBc/Hz	100kHz Offset
				-172	dBc/Hz	1MHz Offset
				-172	dBc/Hz	10MHz Offset
Harmonics				-30	dBc	
Sub-Harmonics				-50	dBc	
Spurious				-80	dBc	
g-sensitivity			1		ppb/g	Worst case axis
Warm-up Time				5	minutes	Test Condition(@ 25°C): Oscillator turned ON after 24hrs OFF. Frequency change 5 minutes after turn ON will be within ±0.05ppm of Long-term stable nominal frequency.
				3	minutes	Test Condition(@ 0°C): Oscillator will be in tunable range

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Recommended Reflow Profile:



Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
09-13-21	A	DPD	Preliminary Release