

## Specification for a Sinewave Output Thru-Hole OCXO

### MtronPTI P/N: XO5083-106R

#### Electrical Specifications:

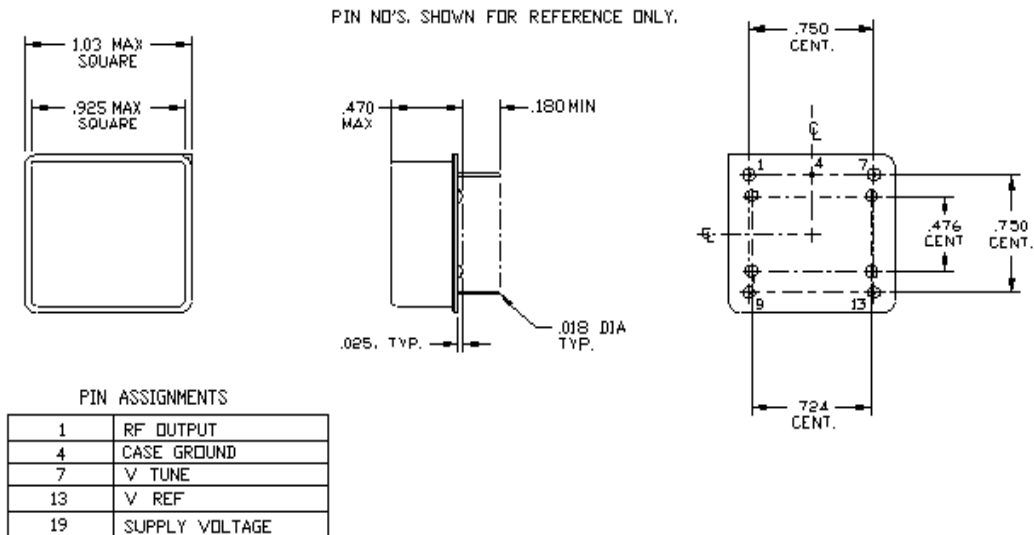
Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F <sub>O</sub>		10.0000		MHz	
Frequency Stability						
Over Temperature Range				10.0	ppb	Peak-Peak Over -40°C to +85°C
Aging (after 30-days operation)				±1.0	ppb	Daily
				±100	ppb	Yearly
				±1.0	ppm	Over 10-Years
Retrace				±5.0	ppb	24-hours on, 24-hours off, 2-hours on
Holdover				50.0	μsec	Over 3-hours for 30°C
RF Output						
Output Type	Sinewave					
Output Level		+7	+10	+13	dBm	
Output Load		45	50	55	Ω	
Frequency Adjustment						
Adjustment Method	External Voltage					
Tuning Voltage	V <sub>TUNE</sub>	0		+5.0	V <sub>DC</sub>	
Tuning Range			±1.0		ppm	@ delivery, will cover all causes for 10-years
Modulation Bandwidth				1	kHz	
Tuning Slope		Positive				
Reference Voltage	V <sub>REF</sub>		+5.1		V <sub>DC</sub>	
V <sub>REF</sub> Source Current				2.0	mA	
SSB Phase Noise						
Under Static Conditions			-90		dBc/Hz	@ 1Hz Offset
			-120			@ 10Hz Offset
			-140			@ 100Hz Offset
			-150			@ 1kHz Offset
			-155			@ 10kHz Offset
			-155			@ 100kHz Offset
Supply Voltage & Power Consumption						
Supply Voltage	V <sub>CC</sub>	+9.928	+10.45	10.973	V <sub>DC</sub>	(V <sub>CC</sub> ±5%)
Power Consumption				4.9	Watts	@ Start-up
				1.5	Watts	@ +25°C Steady State
Additional Specifications						
Warm-up Time				3	Minutes	@ 0°C to within 0.1ppm of final frequency
G-Sensitivity				<1.0	ppb/g	Worst case axis

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### Physical & Environmental:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Operating Temperature	OTR	-40		+85	°C	
Storage Temperature	STR	-55		+85	°C	
Vibration (survival)	Per MIL-STD 202G, Method 204, Condition A					
Shock (survival)	Per MIL-STD 202G, Method 213, Condition C					
Package	Reference Drawing					
RoHS	Full RoHS Compliance					

### Mechanical and Pinout:



UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES  
DECIMALS  
.XX ± .01  
.XXX ± .005

### Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
05-17-21	D	DPD	g-sense changed to <1ppb/g from 1ppb/g max.
02-02-18	C	MM	Added vibration and shock standards
01-9-18	B	DPD	JL part# added
12-8-17	A	DPD	Original Release.