

Specification for a Sinewave Output Thru-Hole OCXO

MtronPTI P/N: XO5083-108R

Electrical Specifications:

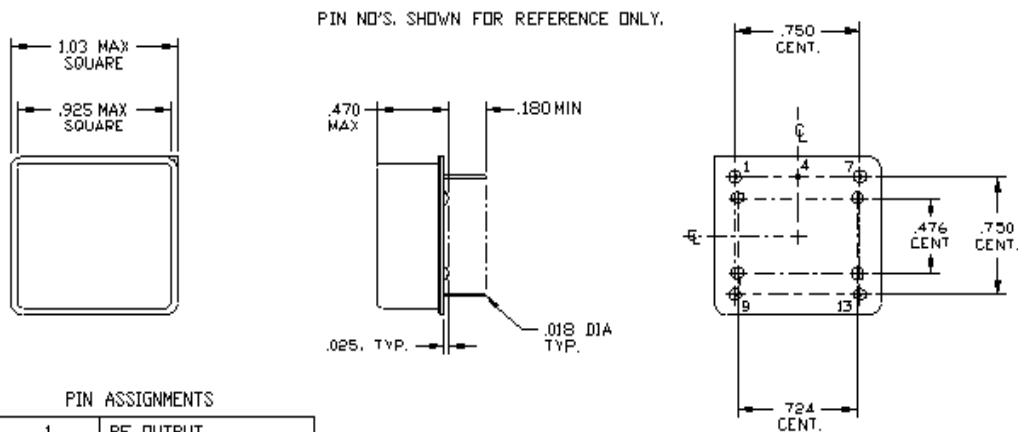
Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F _O		25.0000		MHz	
Frequency Stability						
Over Temperature Range		-25		+25	ppb	Peak-Peak Over -40°C to +80°C
Aging (after 30-days operation)				±0.5	ppb	Daily
				±50	ppb	Yearly
RF Output						
Output Type	Sinewave					
Output Level		5			dBm	
Output Load		45	50	55	Ω	
Frequency Adjustment						
Adjustment Method	External Voltage					
Tuning Voltage	V _{TUNE}	0		+4.5	V _{DC}	
Tuning Range			±1.0		ppm	@ delivery, will cover all causes for 10-years
Tuning Slope		Positive				
Reference Voltage	V _{REF}		+4.1		V _{DC}	
V _{REF} Source Current				0.5	mA	
SSB Phase Noise						
Phase Noise(static)			-110		dBc/Hz	@ 10Hz Offset
			-135			@ 100Hz Offset
			-160			@ 1kHz Offset
			-170			@ 10kHz Offset
			-170			@ 100kHz Offset
Supply Voltage & Power Consumption						
Supply Voltage	V _{CC}	+4.75	5.0	5.25	V _{DC}	(V _{CC} ±5%)
Current Draw			140	300	mA	@ +25°C Steady State
			500	750	mA	@ Start-up
Additional Specifications						
Warm-up Time			2	3	Minutes	To be within 0.1ppm of final frequency at 30min

Physical & Environmental:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Operating Temperature	OTR	-40		+80	°C	
Storage Temperature	STR	-55		+85	°C	
Package	Reference Drawing					
RoHS	Full RoHS Compliance					

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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
01-10-18	B	DPD	Typo condition for current draw corrected. Source current 0.5mA max.
01-05-18	A	DPD	Original Release.