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Specification for an Sine Wave Thru-Hole OCXO MtronPTI P/N: XO2011-004R

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		100.00000		MHz	
Frequency Stabilities						
Initial Tolerance		-350		+350	ppb	At nominal 2.25V EFC at the time of shipment
vs Temperature	ΔF⊤/F	-40		+40	ppb	Over operating temp
Frequency vs Supply		-50		+50	ppb	Per 5% of supply change
Frequency vs Load		-150		+150	ppb	Per 10% of load change
Allen deviation				5X10 ⁻¹¹		At 1sec
Aging/1st year		-500		+500	ppb	After 30 days continuous
Aging 10years		-1.6		+1.6	ppm	operation
Frequency Tuning (EFC)						
Tuning Voltage	V _{TUNE}	0	2.25	4.5	V	
Range	V _{TUNE}	+/- 2.0			ppm	
Linearity	_			10	%	
Slope			Positive			
0.000			RF Output			
Output Type			Sine Wave	<u> </u>		
Output Load		45	50	55	ohm	
Output Level		-	9		dBm	>500mV _{RMS} into 50ohms
•		Temper	ature and Sup	ply Voltage		
Operating Temperature	TA	-30		+85	°C	
Storage Temperature	Ts	-40		+85	°C	
Operating Voltage	V_{DD}	4.75	5.0	5.25	V	
	_			500	mA	During warmup
Operating Current				180	mA	Steady State@ 25°C; no airflow
Warm-up Time				120	Seconds	Time for frequency to be within ±200 ppb of the frequency after 1 hour of operation @ 25°C following 24-hour off time
Harmonics				-20	dBc	
Spurious				-80	dBc	
		Ac	dditional Parar	neters	T	1
			-92		dBc/Hz	10Hz offset
			-127		dBc/Hz	100Hz offset
Phase Noise (static)			-152		dBc/Hz	1kHz offset
			-165		dBc/Hz	10kHz offset
			-168		dBc/Hz	100kHz offset







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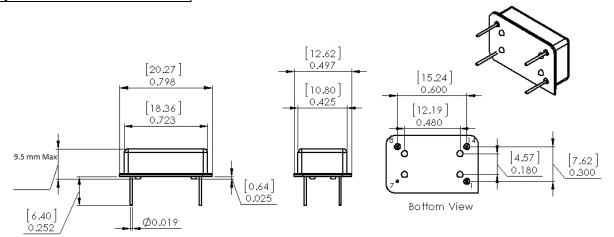
Environmental Conditions:

Sine Vibration	MIL-STD-202, Method 201 and 204, Condition A, except 5g to 2000Hz, 1 sweep each axis
Random Vibration	MIL-STD-202, Method 241, Condition I-D
Humidity	MIL-STD-202, Method 103, Condition B, 100%rh
Seal	MIL-STD-202, Method 112, Condition D
Moisture Sensitvity Level	1
RoHS	YES

Mechanical and Marking Information:

Part Marking	
XO2011-004R	
100.00000MHz	
MtronPTI	
Yyww SN	

Legend	
уу	Year
ww	Work Week



Pin Number	Function
1	Frequency Adjust
14	+5∨
8	Signal Out
7	Ground

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

Figure 1 - Outline Drawing

Data Sheet Revision Table:

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	Date	Rev.	Orig.	Details of Revision
	04-12-18	Α	DPD	Original Release