





Specification for an HCMOS OCXO MtronPTI P/N: XO5084-072R

Electrical Specifications:

Unless otherwise specified; T= +25°C, V_{CC} = +5 V_{DC} , C_L = 15pF, V_{TUNE} = +2.1 V_{DC}

	SS otherwise s					
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Nominal Frequency	Fo		10.000000		MHz	
Initial Tolerance		-100		+100	ppb	@ Time of shipment with
			 Frequency Stabi	litios		nominal V _{TUNE} = +2.1V _{DC}
Darameter	Symbol				Units	Conditions
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
vs. Temp.range		-10		+10	ppb	T= -40°C to +85°C
vs. Supply Voltage		-5		+5	ppb	±5% change in Supply Voltage
vs. Load		-5		+5	ppb	±5% change in Load
Daily Aging		-0.4		+0.4	ppb	A6: 20 I
Yearly Aging		-50		+50	ppb	After 30-days operation
			RF Output		•	•
Output Type			HCMOS			
Output Load			15		pF	Nominal
Symmetry (duty cycle)		45	50	55	%	@ 50%Vcc
Rise/Fall Time	T _R /T _F			10	ns	From 10% to 90% V _{OUT}
Logic "1" Level	V _{OH}	+4.5			V _{DC}	
Logic "0" Level	V _{OL}			+0.5	V_{DC}	
		F	requency Adjust	tment		
Method			External Voltage	9		
Tuning Voltage	V _{TUNE}	0		+4.2	V_{DC}	
Tuning Range		±0.5	±1.0		ppm	Sufficient to correct for all causes for 20-years
Reference Voltage	V_{REF}		+4.2		V_{DC}	
V _{REF} Source Current				2.0	mA	
Slope			Positive			
			SSB Phase No	ise		
			-95		dBc/Hz	@ 1Hz Offset
SSB Phase Noise, Under			-120		dBc/Hz	@ 10Hz Offset
Static Conditions			-140		dBc/Hz	@ 100Hz Offset
Static Conditions			-155		dBc/Hz	@ 1kHz Offset
			-155		dBc/Hz	@ 10kHz Offset
		Tempe	erature and Supp	ply Voltage		
Operating Temperature		-40		+85	°C	
Storage Temperature		-45		+85	°C	
Operating Voltage	Vcc	4.75	5.0	5.25	V _{DC}	
Power Consumption			1.25		Watts	Steady state @ 25°C, In Still Air
				3.5	Watts	@ warm-up
Warm-up Time	ΔF/F		2	3	Minutes	To be within ±100ppb of the frequency after 1-hour of operation after 24-hours off



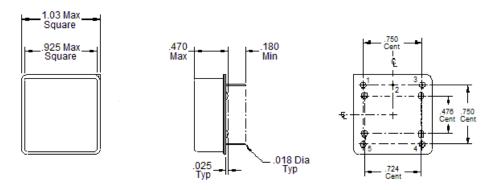


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Additional Conditions:

Solderability	Per EIAJ-STD-002
RoHS	Full RoHS Compliance.

Package and marking Information:



Pin	Function	
1	RF Output	
2	Case Ground	
3	Control Voltage	
4	Vref	
5	Supply Voltage	

Pin Numbers Shown For Reference Only All Dimensionsare in Inches

Figure 1: XO5084-072R Package Outline Drawing

Part Marking		
Line 1	MtronPTI	
Line 2	XO5084-072R	
Line 3	10.000MHz	
Line 4	Serial Number	
Line 5	Date Code	

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

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision	
10-17-19	В	BRR	Reference Voltage changed from 4v to 4.2v	
03-06-19	Α	BRR	Preliminary Release	