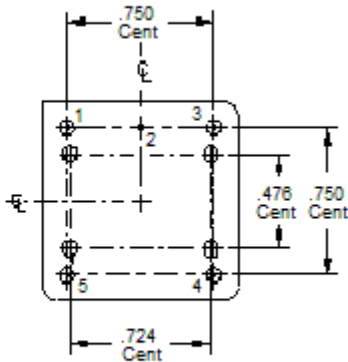
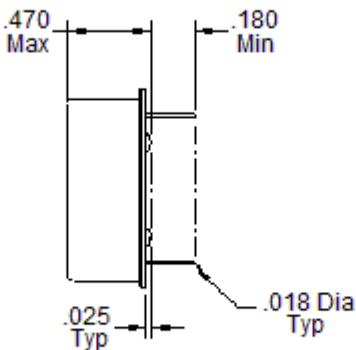
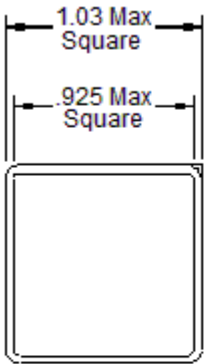


ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	Fo		10.000000		MHz	
Frequency Stabilities						
vs. Temperature	ΔF/F	-10		+10	ppb	T= -40°C to +80°C
vs. Supply Voltage		-2		+2	ppb	±5% change in Supply Voltage
Daily Aging		-0.5		+0.5	ppb	After 30-days operation
Yearly Aging		-100		+100	ppb	
Short Term Stability				0.01	ppb/s	After 24-hours off and 2-hours on
RF Output						
Output Type		Sinewave				
Output Level		+8.5			dBm	
Output Load		45	50	55	Ω	Nominal
Frequency Adjustment						
Method		External Voltage				
Tuning Voltage		0		+10.0	V _{DC}	
Tuning Range			±1.2		ppm	@delivery, will cover all causes for 10-years
Modulation Bandwidth				1	kHz	
Linearity				10%		
Input Impedance		100			kΩ	
Slope		Positive				
Additional Parameters						
Phase Noise (Under Static Conditions)				-125	dBc/Hz	10Hz Offset
				-152	dBc/Hz	100Hz Offset
				-160	dBc/Hz	1kHz Offset
				-165	dBc/Hz	10kHz Offset
				-165	dBc/Hz	100kHz Offset
Harmonics				-30	dBc	
G-Sensitivity				1	ppb/g	Wosrt case axis
Temperature, Supply Voltage and Power Consumption						
Operating Temperature		-40		+80	°C	
Storage Temperature		-55		+125	°C	
Operating Voltage	V _{CC}	+11.4	+12	+12.6	V _{DC}	
Power Consumption				1	Watts	Steady state @ 25°C, In Still Air
				3.6	Watts	@ Warm-up
Warm-up Time	ΔF/F			3	Minutes	@+25°C to within 0.1ppm of final frequency

MECHANICAL AND PIN OUT INFORMATION



Pin	Function
1	RF Output
4	Case Ground
7	VTune
13	N/C
19	Supply Voltage

Pin Numbers Shown For Reference Only
All Dimensions are in Inches

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

Part Marking

Line 1	MtronPTI
Line 2	XO5083-114R
Line 3	10.000MHz
Line 4	Serial Number
Line 5	Date Code

Data Sheet Revision Table

Date	Rev	Author	Details of Revision
08/16/18	A	DPD/AR	Original Release