

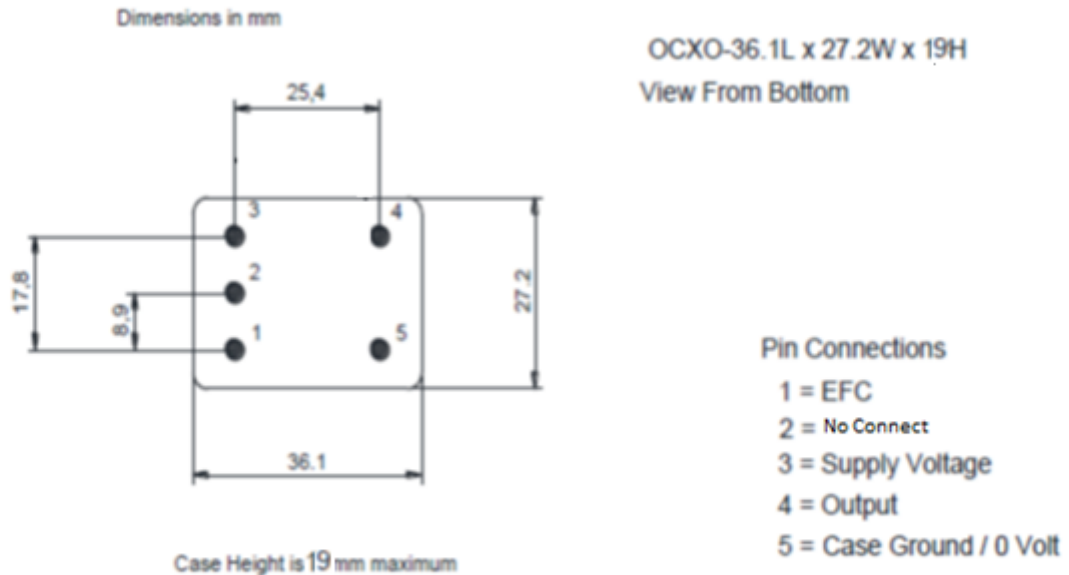
Specification for a Sinewave Output Thru-Hole OCXO

MtronPTI P/N: XO5123-060R

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	F_0		40.000000		MHz	
Frequency Stabilities						
Initial Tolerance		-50		+50	ppb	At time of shipment
vs. Temperature	$\Delta F_T/F$	-0.6		+0.6	ppb	Peak-Peak over the operating temperature
Aging @ 1 st year		-20		+20	ppb	After 72-hrs Power On
Aging @ 5 th year		-70		+70	ppb	After 72-hrs Power On
10-Years Aging		-75		+75	ppb	After 72-hrs Power On
RF Output						
Output Type		Sine				
Output Load			50		ohms	±5%
Output power			+7		dBm	
Harmonics			-40		dBc	
Frequency Adjustment						
Adjustment Method		External Voltage				
Adjustment Voltage	V_{TUNE}	0		+4.1	V_{DC}	
Adjustment Range		Sufficient for 10-years aging adjustment				
Input Impedance			100		Kohm	
Additional Parameters						
Phase Noise				-112	dBc/Hz	10Hz Offset
				-128	dBc/Hz	100Hz Offset
				-135	dBc/Hz	1kHz Offset
				-135	dBc/Hz	10kHz Offset
				-135	dBc/Hz	100kHz Offset
Warm-up Time				4	minutes	@ 25°C, relative to 2-hrs after turn-on following 24-hrs off. To within ±0.1ppm of final frequency.
Temperature, Supply Voltage & Power Consumption						
Operating Temperature	T_A	-40		+70	°C	
Storage Temperature	T_S	-55		+95	°C	
Operating Voltage	V_S	4.75	5	5.25	V_{DC}	
Power Consumption			2.0		Watts	Steady state @ 25°C, In Still Air
				5.0	Watts	@ Warm-up

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Environmental Conditions:

MSL	Level 1
Seal	Hermetic
RoHS	Full RoHS Compliance

Mechanical, Marking and Layout Information:

Part Marking	
Line 1	MtronPTI
Line 2	XO5123-060R
Line 3	40.0000MHz
Line 4	Serial Number
Line 5	Date Code

Legend	
yy	Year
ww	Work Week

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
05-03-18	C	DPD	For Manufacturability height updated from 16mm to 19mm.
03-29-18	B	DPD	Phase Noise, Operating Temp and Stability Numbers are revised as per customer's request.
03-20-18	A	DPD	Original Draft.