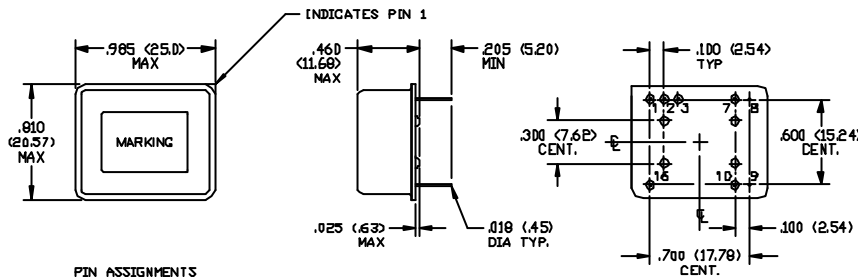


# XO5183 Series

1 x 0.8 inch, 5.0 to 15.0 Volt, Sinewave/HCMOS, OCXO



### PIN ASSIGNMENTS

1	V TUNE
2	N/C OR OVEN READY
3	N/C OR OSC DISABLE/ENABLE
7	N/C OR V REF
8	OV AND CASE GROUND
9	OV AND CASE GROUND
10	RF OUTPUT
16	SUPPLY VOLTAGE

PIN NOS. SHOWN FOR REFERENCE ONLY.

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Electrical Specifications	Frequency Range	F	10	120		MHz	
	Operating Temperature	T <sub>A</sub>		-40 to +85		°C	
	Stability Over Temperature	ΔF/F		< ±10		ppb	
	Short Term Stability						
	Aging						30 days continuous operation
	Daily			±1		ppb	
	First Year			±100		ppb	
	Ten Years			±500		ppb	
	Frequency vs. Supply			±5		%	
	Frequency vs. Load			±10		%	
	Supply Voltage	V <sub>dc</sub>	+5		+15	Volts	
	Warm-Up Time			to within ±0.10 ppm of final frequency			@ 25°C, <2.0 minutes
	Warm-Up Current						
	Supply Current	I <sub>cc</sub>					
	Output Signal			Sinewave/HCMOS			
	Rise/Fall Time	T <sub>r</sub> /T <sub>f</sub>				psec	
	Logic "0" Level	V <sub>ol</sub>				V <sub>dc</sub>	
	Logic "1" Level	V <sub>oh</sub>				V <sub>dc</sub>	
	Symmetry	Sym					
	Output Load			50		Ω	
Frequency Adjustment (Pin 1)		0		+4	V <sub>dc</sub>		
Tuning Slope			Positive				
Input Impedance (Pin 1)							
Phase Noise (10 MHz typical)							
1 Hz		-90			dBc/Hz		
10 Hz		-120			dBc/Hz		
100 Hz		-140			dBc/Hz		
1 kHz		-150			dBc/Hz		
10 kHz		-150			dBc/Hz		
Environmental	Mechanical Shock						
	Vibration						
	Storage Temperature						
	Hermeticity						
	Solderability						

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# MtronPTI Lead Free Solder Profile

