

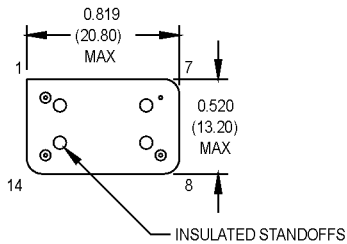
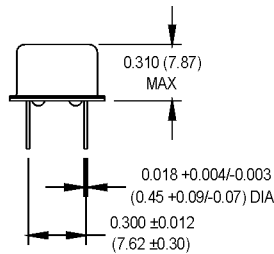
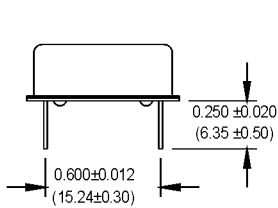
MTXO Series

14 DIP, 5.0 Volt, HCMOS/TTL, TCXO



- Stable TCXO to +/- 1ppm
- Reference timing for SONET, ATM, Instrumentation, and Military Applications

Ordering Information		00.0000 MHz				
Product Series	MTXO	1	H	V	A	D
Temperature Range	1: 0°C to +70°C 2: -40°C to +85°C 6: -20°C to +70°C 8: 0°C to +50°C					
Stability	E: ±10 ppm L: ±5 ppm H: ±2.5 ppm K: ±2 ppm J: ±1 ppm					
Frequency Control (Pin #1)	F: Fixed ("H", "L", and "E" stabilities only) V: ±5 ppm Min. For 0 VDC to 5.0 VDC					
Symmetry/Logic Compatibility	A: 40/60 CMOS/TTL B: 45/55 TTL (< 100.000 MHz only) C: 45/55 CMOS T: True Sinewave Output					
Package/Lead Configurations	D: DIP; Nickel Header S: Surf Board					
Frequency (customer specified)						



All dimensions in inches (mm).

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	0.5		155.52	MHz	CMOS/TTL Sinewave
Operating Temperature	TA	(See ordering information)				
Storage Temperature	Ts	-55		+125	°C	
Frequency Stability	ΔF/F	(See ordering information)				
Aging						
1st Year				1.5	ppm	
Thereafter (per year)				0.5	ppm	
Control Voltage	Vc	0	2.5	5.0	V	Negative Slope
Tuning Range				5	ppm/V	
Modulation Bandwidth	fm	10			KHz	
Input Impedance	Zin	100k			Ω	
Input Voltage	Vdd	4.75	5.0	5.25	V	
Input Current	Idd			30	mA	0.5 to 70 MHz
				45	mA	70.001 to 155.52 MHz
Output Type						CMOS/TTL/Sinewave
Load		5 TTL or 15 pF Max.				CMOS/TTL Sinewave
		50 Ohms to ground				
Symmetry (Duty Cycle)		(See ordering information)				
		See Note 1				
Logic "1" Level	Voh	4.5			V	CMOS/TTL
Logic "0" Level	Vol			0.5	V	CMOS/TTL
Output Power	Po	0			dBm	
Rise/Fall Time	Tr/Tf					See Note 2
0.5 to 30 MHz				10	ns	
30.001 to 155.52 MHz				5	ns	
Start up Time		10			ms	
Phase Noise (Typical)		10 Hz	100 Hz	1 kHz	10 kHz	100 kHz
@ 19.44 MHz	-78	-103	-136	-143	-146	dBc/Hz
@ 155.52 MHz	-42	-66	-76	-80	-89	dBc/Hz

1. Symmetry is measured at 1.4 V with TTL load; and at 50% Vdd with HCMOS load.
2. Rise/fall times are measured between 0.5 V and 2.4 V with TTL load; and between 10% Vdd and 90% Vdd with HCMOS load. Output levels to +8 dBm are available. Contact factory for non-standard requirements.

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Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.