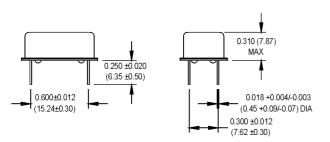
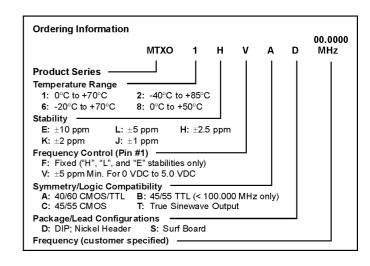
## MTXO Series 14 DIP, 5.0 Volt, HCMOS/TTL, TCXO

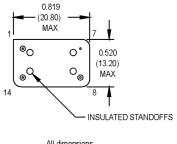




- Stable TCXO to +/- 1ppm
- Reference timing for SONET, ATM, Instrumentation, and Military Applications







in inches (mm).

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	0.5		155.52	MHz	CMOS/TTL
	. , ,		10		33	MHz	Sinewave
Electrical Specifications	Operating Temperature	TA	(See ordering information)				
	Storage Temperature	Ts	-55		+125	°C	
	Frequency Stability	∆F/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	ldd			30	mA	0.5 to 70 MHz
					45	mA	70.001 to 155.52 MHz
	Output Type						CMOS/TTL/Sinewave
	Load			5 TTL o	CMOS/TTL		
			50 Ohms to ground			Sinewave	
	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	Offset from carrier
	@ 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 ands 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.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.