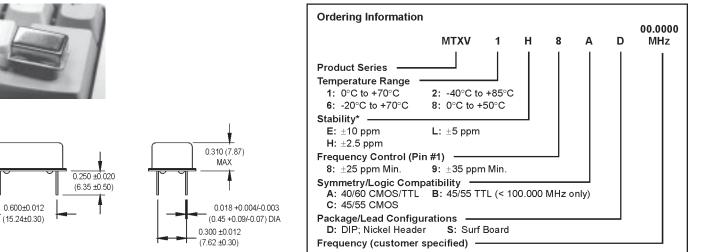
MTXV Series 14 DIP, 5.0 Volt, HCMOS/TTL, TCVCXO





Electrical Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition
	Frequency Range	F	0.5		155.52	MHz	
	Frequency Stability	∆F/F	(See Ordering Information)				
	Operating Temperature	ΤΑ	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Input Voltage	Vdd	4.75	5.0	5.25	VDC	
	Input Current	ldd		15	25	mA	0.5 MHz to 30 MHz
				18	30	mA	30.001 MHz to 70 MHz
				20	45	mA	70.001 MHz to 155.52 MHz
	Symmetry ¹		(See Ordering Information)				
	Load		5 TTL or 15 pF Max.				
	Rise/Fall Time ²	Tr/Tf			10	ns	0.5 MHz to 30 MHz
					5	ns	30.001MHz to 155.52 MHz
	Logic "1" Level	Voh	2.4			VDC	TTL
			90			%	HCMOS
	Logic "0" Level	Vol			10	VDC	TTL
					0.4	%	HCMOS
	Cycle to Cycle Jitter						1 Sigma
	@ 19.44 MHz				4.2	ps RMS	
	@ 38.88 MHz				8.7	ps RMS	
	@ 155.52 MHz				5.5	ps RMS	
	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
	@ 38.88 MHz	-45	-77	-100	-89	-88	dBc/Hz
	@ 155.52 MHz	-42	-66	-76	-80	-89	dBc/Hz
	Modulation Bandwidth	fm	10			kHz	
	Input Impedance (Pin 1)	Zin	50			KΩ	
	Control Voltage	Vc	0	2.5	5.0	VDC	
	Center Frequency	Vc0		2.5		VDC	
	Pullability		(See Ordering Information)			ppm/V	
	Deviation Slope						Positive, Monotonic
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
	Vibration	Per MIL-STD-202, Method 201 & 204					
on l	Reflow Solder Conditions	See Page 147					
<u>, </u>	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 [°] atm.cc/s of helium)					
Ш	Solderability	Per EIAJ-STD-002					

* Referenced to 25°C reading at 2.5 VDC control voltage.

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.

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0.819

(20.80) MAX

0

°₀

All dimensions in inches (mm).

* See page 146 for surf board configuration.

0.520 (13.20)

MAX

INSULATED STANDOFFS

8

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C

14

PIN	FUNCTION					
1	Control Voltage Ground/Case					
7						
8	Output					
14	+Vdd					