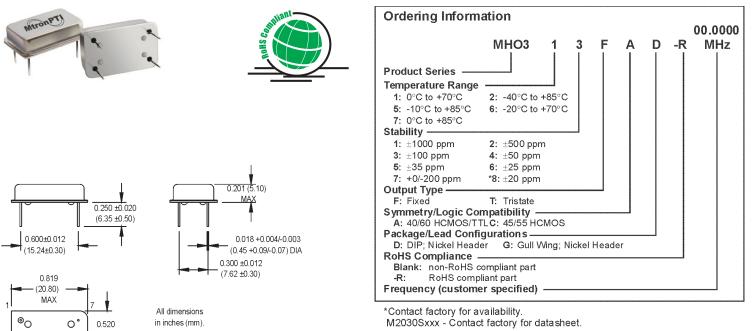
## **MHO3 Series** 14 pin DIP, 3.3 Volt, HCMOS/TTL, Clock Oscillator

in inches (mm).



M2030Sxxx - Contact factory for datasheet.

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
Electrical Specifications	Frequency Range	F	1.5		80	MHz	See Note 1	
	Operating Temperature	ΤΑ	(See ordering information)					
	Storage Temperature	Ts	-55		+125	°C		
	Frequency Stability	∆F/F	(S	(See ordering information)				
	Aging 1st Year Thereafter (per year)			±3 ±2		ppm ppm		
	Input Voltage	Vdd	3.135	3.3	3.465	V		
	Input Current	ldd			25 35	mA mA	1.500 to 50.000 MHz 50.001 to 67.000 MHz	
	Output Type						HCMOS/TTL	
	Load		2 TTL or 15 pF			See Note 2		
	Symmetry (Duty Cycle)		(S	(See ordering information)			See Note 3	
	Logic "1" Level	Voh	90% Vdd Vdd-0.4			V V	HCMOS Load TTL Load	
	Logic "0" Level	Vol			10% Vdd 0.4	V V	HCMOS Load TTL Load	
	Output Current				±4	mA		
	Rise/Fall Time	Tr/Tf			10	ns	See Note 4	
	Tristate Function		Input Logic "1" or floating: output active Input Logic "0": output disables to high-Z					
	Start up Time			5		ms		
	Random Jitter	Rj		5	12	ps RMS	1-Sigma	
Environmental								
			MIL-STD-202, Method 213, C (100 g's)					
	Vibration		MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
			MIL-STD-883, Method 1010, B (-55°C to +125°C, 15 min dwell, 10 cycles)					
			MIL-STD-202, Method 112					
			Per EIAJ-STD-002					
	Max Wave Soldering Conditions		+260°C for 10 seconds					
	1. Contact the factory for availability of higher frequencies.							

2. TTL load - see Load Circuit Diagram #1. HCMOS load - see Load Circuit Diagram #2. 3. Symmetry is measured at 1.4 V with TTL load and at 50% Vdd with HCMOS load.

4. Rise/fall times are measured between 0.4 V and 2.4 V with TTL load, and between 10% Vdd and 90% Vdd with HCMOS Load.

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.

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

## **Pin Connections**

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<sub>⊚</sub>Q

14

0.520 (13.20)

MAX

INSULATED STANDOFFS

8

PIN	FUNCTION			
1	N/C or Tristate			
7	Circuit/Case Ground			
8	Output			
14	+Vdd			

