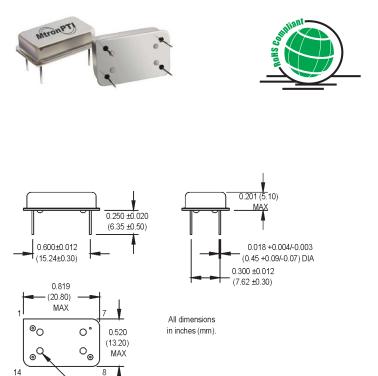
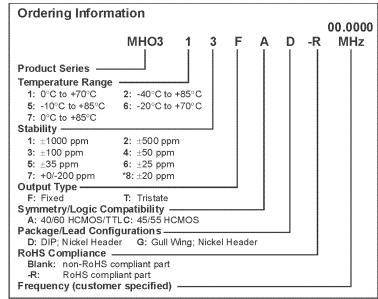
MHO3 Series

14 pin DIP, 3.3 Volt, HCMOS/TTL, Clock Oscillator







^{*}Contact factory for availability.

M2030Sxxx - Contact factory for datasheet.

Pin Connections

INSULATED STANDOFFS

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
	Frequency Range	F	1.5		80	MHz	See Note 1	
	Operating Temperature	TA	(See order	ing informatio			
	Storage Temperature	Ts	-55		+125	°C		
S	Frequency Stability	ΔF/F	(:	(See ordering information)				
	Aging 1st Year Thereafter (per <i>y</i> ear)			±3 ±2		ppm ppm		
<u>6</u>	Input Voltage	Vdd	3.135	3.3	3.465	V		
Specifications	Input Current	ldd			25 35	mA mA	1.500 to 50.000 MHz 50.001 to 67.000 MHz	
) è	Output Type						HCMOS/TTL	
	Load		2 TTL or 15 pF			See Note 2 See Note 3		
ca	Symmetry (Duty Cycle)					(See ordering information)		
Electrical	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	
<u> </u>								
Environmental	Mechanical Shock		MIL-STD-202, Method 213, C (100 g's)					
	Vibration		MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
ō	Thermal Cycle		MIL-STD-883, Method 1010, B (-55°C to +125°C, 15 min dwell, 10 cycles)					
Ξ	Hermeticity		MIL-STD-202, Method 112					
ш	Solderability		Per EIAJ-STD-002					
<u> </u>	Max Wave Soldering Conditions +260°C for 10 seconds 1. Contact the factory for availability of higher frequencies.							

- Contact the factory for availability of higher frequencies.
 TTL load see Load Circuit Diagram #1. HCMOS load see Load Circuit Diagram #2.
 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.

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