MHO+ Series

14 pin DIP, 5.0 Volt, HCMOS/TTL, Clock Oscillator

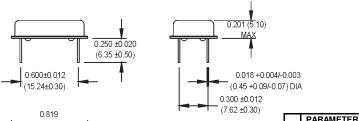


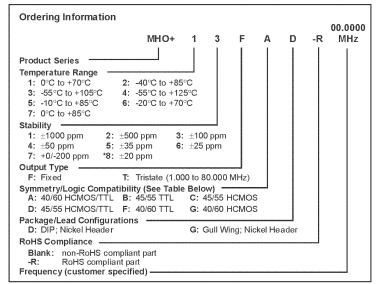




Features:

- Standard 14 DIP Package
- RoHS Compliant Version Available (-R)
- Tristate Option
- Wide Operating Temperature Range





*Contact factory for availability M2014Sxxx - Contact factory for datasheet.

1	0.819 (20.80) MAX	-	7	All dimensions
	[©] O	0°	0.520	in inches (mm).
	o (್ಠ	(13.20) MAX	
14		`	8	
		_	INSULATED STAND	OFFS

Pin Connections

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

Available Symmetry

FREQUENCY RANGE	STD.	OPTIONS
0.732 kHz to 50 MHz	Α	B, C, D
50.001 to 60 MHz	Α	B, C
60.001 to 67 MHz	Α	С
67.001 to 80 MHz	F,G	С

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes	
	Frequency Range	F	.732 kHz		80	MHz	See Note 1	
	Operating Temperature	TA	(S	ee orderii				
	Storage Temperature	Ts	-55		+125	°C		
	Frequency Stability	ΔF/F	(S	(See ordering information)				
	Aging 1st Year			±3		ppm		
	Thereafter (per year)			+2		ppm		
	Input Voltage	Vdd	4.5	5.0	5.5	V		
	Input Current	ldd			15	mA	.732 kHz to 2.999 MHz	
_s	•				25	mA	3.000 to 25.999 MHz	
ĕ					60	mA	26.000 to 80.000 MHz	
äti	Output Type						HCMOS/TTL	
Electrical Specifications	Load		5 TTL or 50 pF 10 TTL or 50 pF 10 TTL or 15 pF			See Note 2 .732 kHz to 2.999 MHz 3.000 to 25.999 MHz 26.000 to 80.000 MHz		
	Symmetry (Duty Cycle)		(See ordering information)			See Note 3		
	Logic "1" Level	Voh	90% Vdd Vdd-0.5			V	HCMOS Load TTL Load	
	Logic "0" Level	Vol			10% Vdd 0.5	V	HCMOS Load TTL Load	
	Output Current				±8 ±16	mA mA	.732 kHz to 2.999 MHz 3.000 to 80.000 MHz	
	Rise/Fall Time	Tr/Tf			20 10	ns ns	See Note 4 .732 kHz to 2.999 MHz 3.000 to 80.000 MHz	
	Tristate Function		Input Logic "1" or floating: output active Input Logic "0": output to high-Z					
	Start up Time				10	ms		
	Random Jitter	Rj		5	12	ps RMS	1-Sigma	
tal	Mechanical Shock		MIL-STD-202, Method 213, C (100 g's)					
en	Vibration		MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Environmental	Thermal Cycle		MIL-STD-883, Method 1010, B (-55°C to +125°C, 15 min dwell, 10 cycles)					
일	Hermeticity		MIL-STD-202, Method 112					
ਨੂ	Solderability		Per EIAJ-STD-002					
ш.	Max Wave Soldering Cond	+260°C for 10 seconds						
	1. Contact the factory for availability of higher frequencies							

- 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 frequency dependent and measured between 0.4 V and 2.4 V with TTL load, and between 10% Vdd and 90% Vdd with HCMOS Load.

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