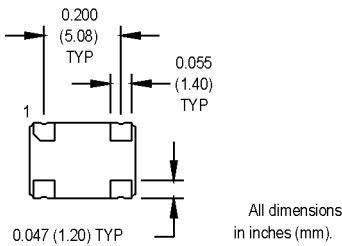
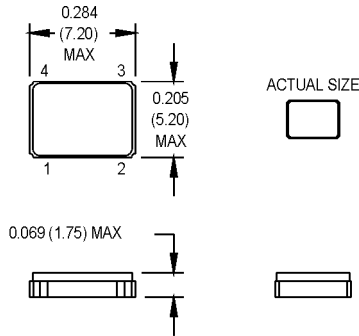


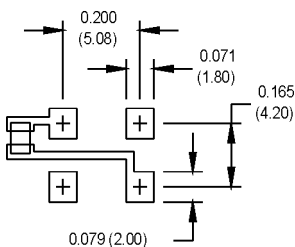
M1 Series 5.0 X 7.0 X 1.75 mm HCMOS/TTL Compatible 5.0 Volt Surface Mount Oscillators



Low Profile, High Performance HCMOS/TTL Compatible 5.0 Volt Surface Mount Oscillators



SUGGESTED SOLDER PAD LAYOUT



NOTE: A capacitor of value 0.01 μ F or greater between Vdd and Ground is recommended.

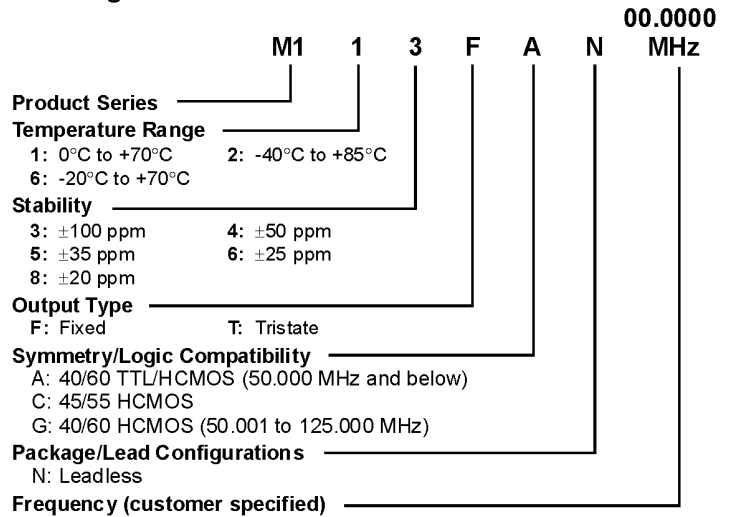
Pin Connections

PIN	FUNCTION
1	N/C or Tri-state
2	Ground
3	Output
4	+Vdd

Tri-state Control Logic

Pin 1 high or floating: clock signal output.
Pin 1 low: output disabled to high impedance.

Ordering Information



Electrical Specifications

Standard Operating Conditions • 0°C to +70°C; Vdd = 5.0 \pm 10% VDC					
PARAMETERS	A & C SYMMETRY/LOGIC				UNITS
	TTL Load		HCMOS Load		
Frequency Range ¹	MIN.	MAX.	MIN.	MAX.	MHz
Output Load ²		10	50		TTL/pF
Symmetry ³	40/60	60/40	40/60	60/40	%
Logic "0" Level		0.5		10% Vdd	V
Logic "1" Level	Vdd-0.5		90% Vdd		V
Rise/Fall Time ⁴		10		10	ns
Supply Current					
1.500 to 20.000 MHz		20		20	mA
20.001 to 50.000 MHz		35		45	mA
PARAMETERS	G SYMMETRY/LOGIC				UNITS
	MIN.	MAX.	MIN.	MAX.	
Frequency Range ¹			50.001	125.000	MHz
Output Load ²				50	pF
50.001 to 67.000 MHz				15	pF
67.001 to 125.000 MHz					
Symmetry ³			40/60	60/40	%
Logic "0" Level				10% Vdd	V
Logic "1" Level			90% Vdd		V
Rise/Fall Time ⁴					
50.001 to 67.000 MHz				10	ns
67.001 to 125.000 MHz				3	ns
Supply Current				65	mA

¹ Because this product is based on AT-strip technology, not all frequencies in the range stated are available. Contact the factory for availability of specific frequencies.

² TTL load - See load circuit diagram #1 on page 113. HCMOS load - See load circuit diagram #2 on page 113.

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 0.5 V and 2.4 V with TTL load, and between 10% Vdd and 90% Vdd with HCMOS load. See page 112, Figure "2" for suggested solder profile.

M-tron 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. No rights under any patent accompany the sale of such product.

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