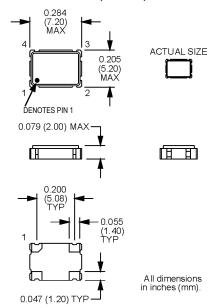


# THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE M1 PRODUCT SERIES.

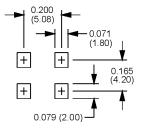




- AT-strip crystal in a miniature ceramic surface mount package.
- TTL and HCMOS compatible
- Tri-state output is optional



#### SUGGESTED SOLDER PAD LAYOUT



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

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.

	MM 1	3	Т	Α	N	00.00 MHz
Product Series Temperature Range						
1: 0°C to +70°C 6: -20°C to +70°C	2: -40°C to +85°C					
Stability —						
3: ±100 ppm	<b>4</b> : ±50 ppm					
<b>5</b> : ±35 ppm	<b>6</b> : ±25 ppm					
8: ±20 ppm						
Output Type ——						
F: Fixed	T: Tristate					
Symmetry/Logic Cor A: 40/60 HCMOS/TT C: 45/55 HCMOS						
G: 40/60 HCMOS (50	.001 to 67.000 MHz)					
Package/Lead Config N: Leadless	gurations —					

#### **Electrical Specifications**

Standard Operating Conditions • 0°C to +70°C; Vdd =  $5.0 \pm 10\%$  VDC Storage Temperature • -55°C to +125°C

	TTL Load		HCMOS Load		
PARAMETERS	MIN.	MAX.	MIN.	MAX.	UNITS
Frequency Range <sup>1</sup>	1.500	50.000	1.500	50.000	MHz
Output Load <sup>2</sup>		10		50	TTL/pF
Symmetry <sup>3</sup>	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		6		10	ns
Supply Current					
1.500 to 15.000 MHz		20		25	mA
15.001 to 32.000 MHz		25		30	mA
32.001 to 50.000 Mhz		40		45	mA
Frequency Range <sup>1</sup>			50.001	67.000	MHz
Output Load <sup>2</sup>				50	pF
Symmetry <sup>3</sup>			40/60	60/40	%
Logic "0" Level		1		10% Vdd	V
Logic "1" Level			90 % Vdd		V
Rise/Fall Time <sup>4</sup>				10	ns
Supply Current		1		60	mA

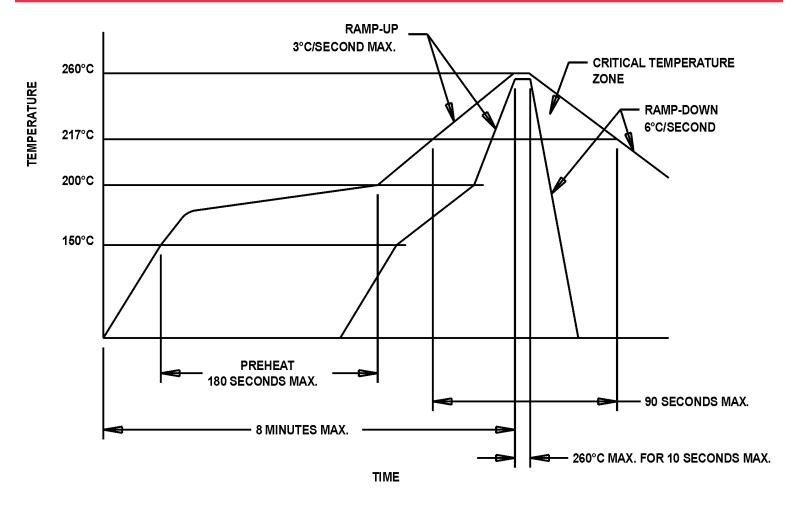
- Because this product is based on AT-strip technology, not all frequencies in the range stated are available.
- Contact the factory for availability of specific frequencies.
- TTL load See load circuit diagram #1. HCMOS load See load circuit diagram #2.
   Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.
- <sup>4</sup> 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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## MtronPTI Lead Free Solder Profile



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