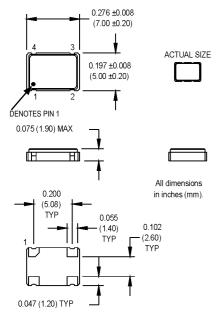


THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE M2 PRODUCT SERIES.

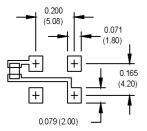




- AT-strip crystal in a miniature ceramic surface mount package
- TTL and HCMOS compatible
- Tri-state output is optional



SUGGESTED SOLDER PAD LAYOUT



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

	М3	1	2	т	Α	NI	00.00 MHz
	1412	1	J	- 1	$\hat{}$	IN	IVIITIZ
Product Series —							
Temperature Range							
1: 0°C to +70°C	2: -40°C to +	85°C					
6: -20°C to +70°C							
Stability ———							
3: ±100 ppm	4: ±50 ppm						
5 : ±35 ppm	6 : ±25 ppm						
8: ±20 ppm							
Output Type ———							
F: Fixed	T: Tristate						
Symmetry/Logic Com A: 40/60 HCMOS/TTL C: 45/55 HCMOS							
Package/Lead Config N: Leadless	urations —						

PIN	FUNCTION			
1	N/C orTri-state			
2	Gro und			
3	Output			
4	+Vdd			

Tri-state Control Logic

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

Electrical Specifications

Standard Operating Conditions • 0°C to +70°C; Vdd = $3.3 \pm 10\%$ VDC

Storage Temperature • -55°C to +125°C

Storage reimperature • -55°C to +125°C									
	TTL Load		нсмо						
PARAMETERS	MIN.	MAX.	MIN.	MAX.	UNITS				
Frequency Range ¹	1.500	67.000	1.500	67.000	MHz				
Output Load ²		2		15	TTL/pF				
Symmetry ³	40/60	60/40	40/60	60/40	%				
Logic "0" Level		0.4		10% Vdd	V				
Logic "1" Level	Vdd-0.4		90% Vdd		V				
Rise/Fall Time ⁴		6		6	nS				
Supply Current									
1.500 to 20.000 MHz		25		25	mA				
20.001 to 67.000 MHz		40		40	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.

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.

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.

⁴Rise/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 Lead Free Solder Profile

