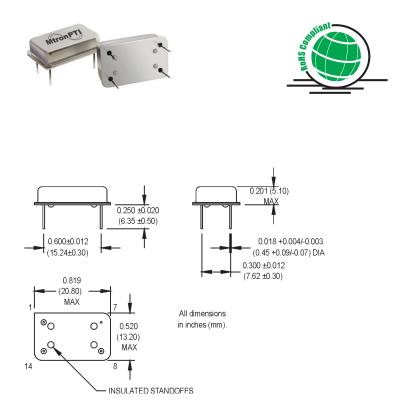
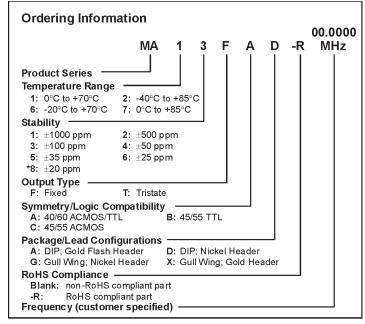
## **MA Series**

## 14 pin DIP, 5.0 Volt, ACMOS/TTL, Clock Oscillator







<sup>\*</sup> Contact factory for availability.

## **Pin Connections**

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
cations	Frequency Range	F	30		133	MHz		
	Frequency Stability	∆F/F	(See Ordering Information)					
	Operating Temperature	TA	(See Ordering Information)					
	Storage Temperature	Ts	-55		+125	°C		
	Input Voltage	Vdd	4.75	5.0	5.25	V		
	Input Current	ldd		70	90	mA	@ 50 Ω Load	
Ğ	Symmetry (Duty Cycle)		(See Ordering Information)				See Note 1	
Electrical Specifications	Load				50	Ω	See Note 2	
	Rise/Fall Time	Tr/Tf			2	ns	See Note 3	
	Logic "1" Level	Voh	90% Vdd			V	ACMOS Load	
			Vdd -0.5			V	TTL Load	
	Logic "0" Level	Vol			10% Vdd	V	ACMOS Load	
					2.4	V	TTL Load	
	Cycle to Cycle Jitter			5	15	ps RMS	1 Sigma	
	Tri-State Function		Input Logic "1" or floating; output active					
			Input Logic "0"; output to high-Z					
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
	Vibration	Per MIL-STD-202, Method 201 & 204						
	Wave Solder Conditions	+260 °C for 10 secs. max.						
yi	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>8</sup> atm.cc/s of helium)						
Ē	Solderability	Per EIAJ-STD-002						

- 1. Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with ACMOS load.
- See load circuit diagram #6.
- 3. Rise/Fall times are measured between 0.5 V and 2.4 V with TTL load, and between 10% Vdd and 90% Vdd with ACMOS 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.