

**CLOCK OSCILLATORS****T500/ T1000 Clock Oscillator,  
Standard Welded Thru-Hole Package**

T500



T1000

**Features:**

- ◆ High frequency capability
- ◆ Hermetically sealed welded package
- ◆ 8 pin and 14 pin DIP versions
- ◆ Tight symmetry available
- ◆ HCMOS/ TTL compatible
- ◆ Case ground minimizes EMI

**Model: T500/T1000 Series Specifications**

Parameter	Unit	Min.		Typ.		Max.	
		5.0V	3.3V	5.0V	3.3V	5.0V	3.3V
Frequency Range	MHz	1.00	1.00	-	-	200.00	200.00
Operating Temperature Range	°C	-20 to +70, -30 to +80, -40 to +85					
Frequency Stability (1)	ppm	±25, 50, 100					
Supply Current							
1MHz to 20MHz	mA	15	10	-	-	26	17
20MHz to 40MHz	mA	40	30	-	-	40	25
40MHz to 80MHz	mA	50	40	-	-	60	35
80MHz to 125MHz	mA	50	40	-	-	70	45
125MHz to 200MHz	mA	60	50	-	-	80	65
Load (2)		10TTL/ 50TTL: 15pF/50pF CMOS					
Output Levels							
Output High (TTL)	V	2.4		-	-	-	-
Output High (CMOS)	V	90%		-	-	-	-
Output Low (TTL)	V	-	-	-	-	0.4	
Output Low (CMOS)	V	-	-	-	-	10%	
Transition Times (Rise/Fall)							
1MHz to 20MHz	ns	-	-	-	-	10	
20MHz to 70MHz	ns	-	-	-	-	6	
70MHz to 125MHz	ns	-	-	-	-	4	
125MHz to 200MHz	ns	-	-	-	-	2	
Duty Cycle	%	50 ±10% standard; 50 ±5% optional					
Aging	ppm	±5.0ppm/ per year					
Startup Time	ms	10 ms max.					
Storage Temperature	°C	-55 to +125					
Tri-State		Pin 1					
Output Active	V	4.0	2.0	-	-	-	-
Output in High Impedance State	V	-	-	-	-	0.8	0.5
Period Jitter: Absolute	ps	100					
Period Jitter: One Sigma	ps	25					

(1) Inclusive of calibration @ 25°C, operating temperature, Input voltage change, load change, shock, and vibration. Tighter stabilities available- contact Factory.  
(2) 50pF Drive available- contact Factory.

## See Next Page for Package Information

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CLOCK OSCILLATOR: T500 / 1000 Series Thru-Hole

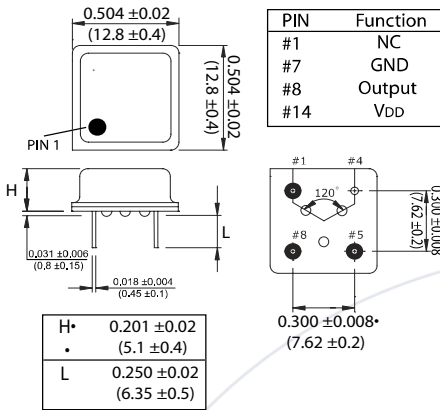
CLOCK OSCILLATOR: T500 / 1000 Series Thru-Hole

# CLOCK OSCILLATORS

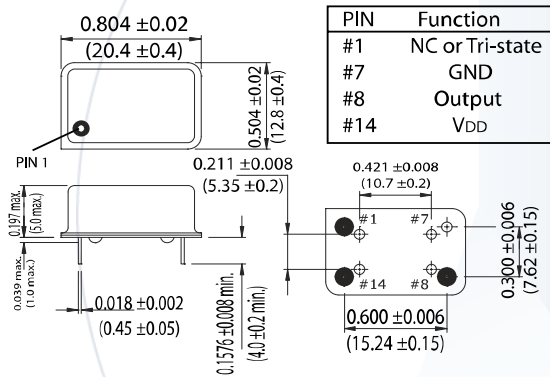
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## T500 Package



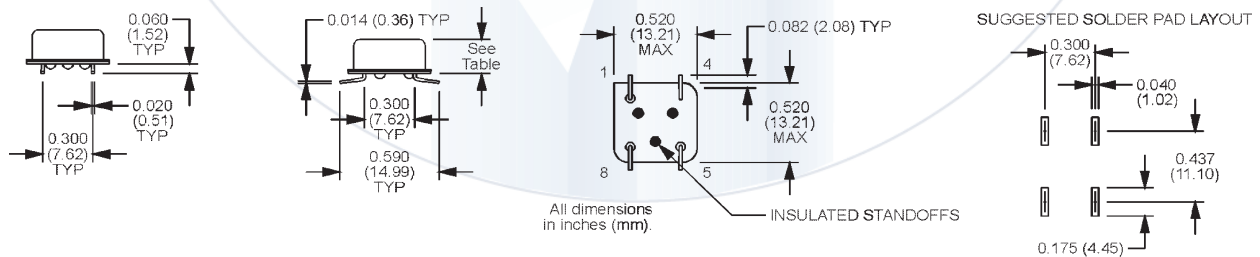
## T1000 Package



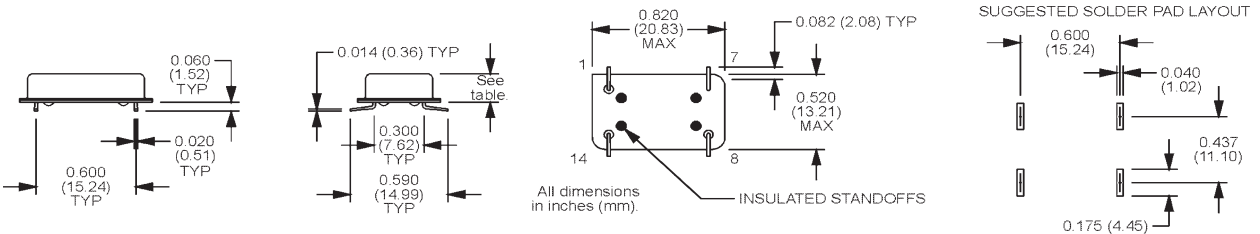
## T500/T1000 Standard Clock Oscillators

8.000000	19.200000	29.491200*	47.197000
9.830400	19.440000	30.000000*	48.000000
10.000000	19.654000	31.307600	49.152000
12.000000	19.660800	32.000000*	49.867000
12.288000	19.752900	32.768000*	50.000000
12.352000	19.774000	33.000000*	51.840000
12.500000	20.000000	35.500000	52.416000
13.000000	20.480000	35.984000	52.560000
13.107200	20.950000	36.000000*	55.289000
13.070000	21.000000	36.864000	56.448000
14.285000	21.504000	36.923000	57.600000
14.318180	22.000000	37.056000	60.000000
14.745600	22.500000	38.880000	60.480000
15.360000	23.000000	40.000000	64.000000
16.000000	24.431316	41.931250	65.520000
16.384000	25.000000*	44.000000	65.536000
16.500000	26.000000	44.137900	66.000000
16.660000	27.000000*	44.539000	66.667000
17.734475	28.000000*	44.732000	68.736000
17.992200	28.224000	44.736000	72.000000
18.000000	28.800000	45.158400	73.728000
18.432000	29.491000	45.818000	75.000000

## T500 Package Gullwing



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