



V1000

# VCXOs

## V500 / V1000 Voltage Controlled Crystal Oscillator



**Features:**

- ◆ High frequencies available
- ◆ Hermetically Sealed
- ◆ Wide deviation available
- ◆ SMD (Gullwing)
- ◆ Tight symmetry available
- ◆ Case ground minimizes EMI

Model: V500/V1000 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	See Table					
Frequency Stability	ppm	See Table					
Supply Current							
1MHz to 20MHz	mA	-	-	-	-	26	17
20MHz to 40MHz	mA	-	-	-	-	40	25
40MHz to 80MHz	mA	-	-	-	-	60	35
80MHz to 125MHz	mA	-	-	-	-	70	45
125MHz to 200MHz	mA	-	-	-	-	80	65
Load	pF	15					
Output Levels							
Output High (CMOS)	V	90%		-	-	-	-
Output Low (CMOS)	V	-	-	-	-	10%	
Transition Times (Rise/Fall)	nSec	-	-	-	-	5	
Duty Cycle	%	50 ±10% standard; 50 ±5% optional					
Control Voltage	V	See Table					
Frequency Deviation		See Table					
Aging	ppm	±3.0ppm/ per year					
Startup Time	mSec	-	-	-	-	10	
Storage Temperature	°C	-55 to +125					
Period Jitter: Absolute	pSec	-	-	-	-	100	
Period Jitter: One Sigma	pSec	-	-	-	-	25	

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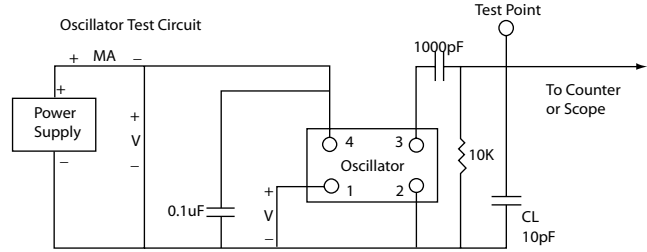
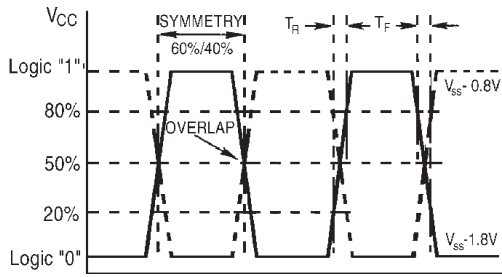
Temperature	Stability
0 to 70°C	±25, ±50, ±100
-40 to 85°C	±50, ±100

Voltage (V)	Deviation (ppm min.)
2.5 ±2.0	±10, ±30, ±50, ±100, ±150, ±200
1.65 ±1.5	±10, ±30, ±50, ±100, ±150 ±300 (optional)

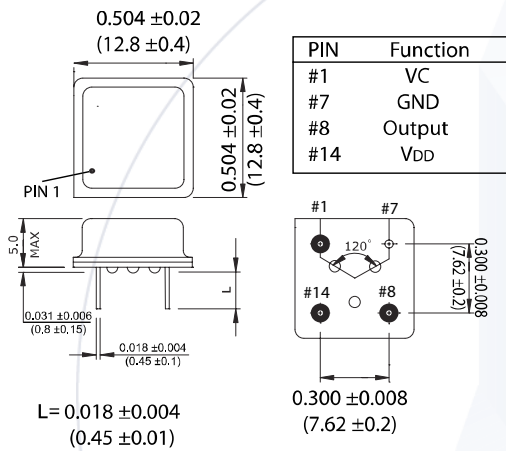
See Next Page for Drawing

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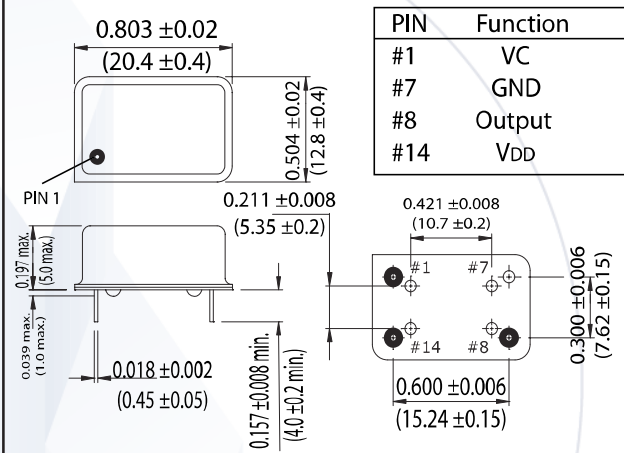
## Test Curcuits



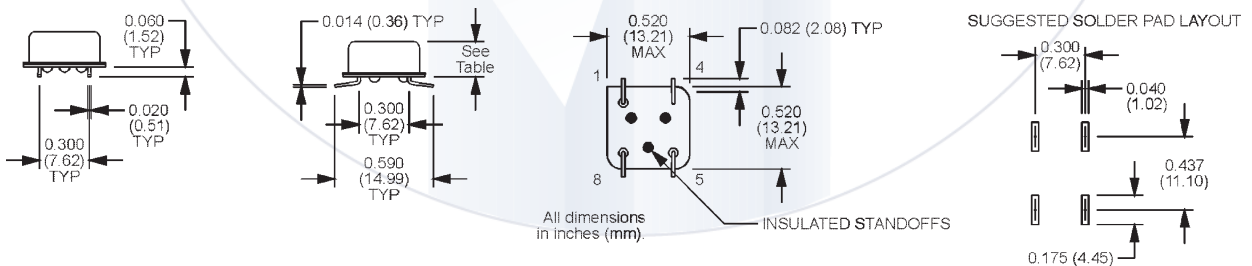
### V500 Package



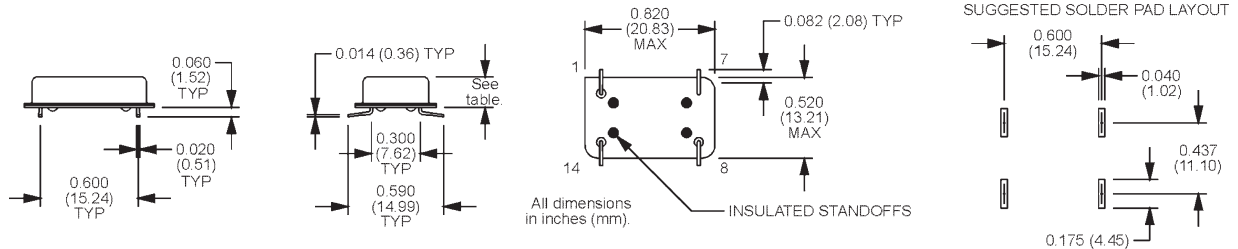
### V1000 Package



### V500 Gullwing Package



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