

**N32xx Model**  
14 Pin Dip, **5V, HCMOS/TTL**

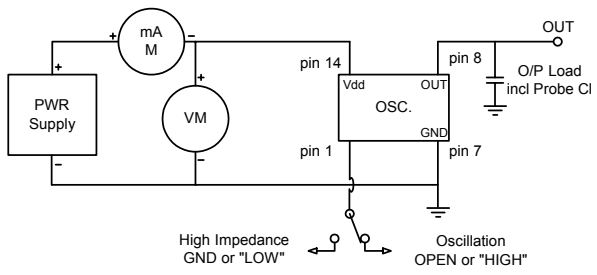
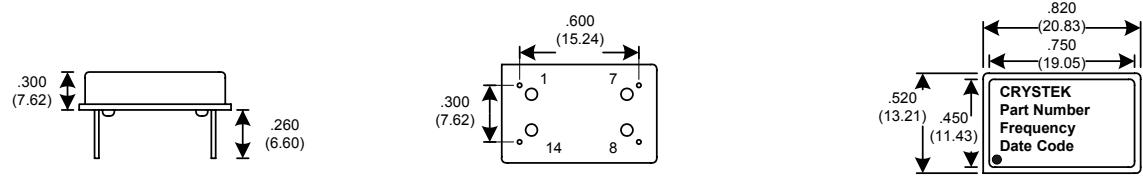


# Clock Oscillator



Designed to meet today's requirements for low jitter applications. The oscillator utilizes fundamental and 3rd overtone crystal technology. No multiplier is used thereby reducing output jitter.

- Frequency Range:** 1.544MHz to 125MHz  
**Frequency Stability:** ±10ppm to ±100ppm  
**Temperature Range:**  
 Operating: 0°C to 70°C  
 (Option) -40°C to 85°C  
**Storage:** -55°C to 120°C  
**Input Voltage:** 5V ± 0.5V  
**Input Current:** 40mA Max  
**Output:** HCMOS/TTL  
 Symmetry: 40/60% Max @ 50% Vdd  
 (Option) 45/55% Max  
 Rise/Fall Time: 4ns Typ, 6ns Max  
 Logic: "0" = 10% Vdd Max  
 "1" = 90% Vdd Min  
 Load: 50pF/10TTL Max  
**Jitter RMS:** 5ps Typ, 10ps Max  
**Aging:** <3ppm 1st/yr, 1ppm every year thereafter



Tri-State Function	
Function pin 1	Output pin
Open	Active
"1" level 2.4V Min	Active
"0" level 0.4V Max	High Z

Crystek Part Number Guide	
Example: N3292-44.736	
Extended Temp: NE3292-44.736	
N= 0°C to 70°C	
*NE= -40°C to 85°C	
Symmetry 40/60%	
Part Number	Freq. Stability
N*3290	+/- 100ppm
N*3292	+/- 50ppm
N*3291	+/- 25ppm
N 3298	+/- 20ppm
N 3297	+/- 10ppm
Symmetry 45/55%	
Part Number	Freq. Stability
N*3990	+/- 100ppm
N*3992	+/- 50ppm
N*3991	+/- 25ppm
N 3998	+/- 20ppm
N 3997	+/- 10ppm

Specifications subject to change without notice. **TD-02072 Rev. B**