

**S25xx Model**  
8 Pin Dip, 2.5V, LVCMOS



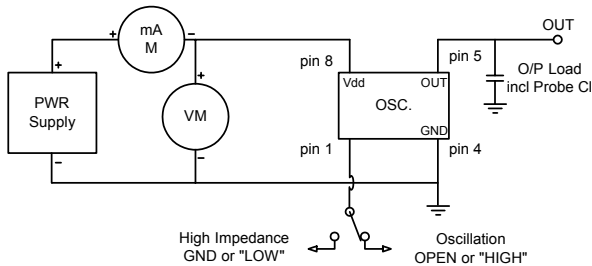
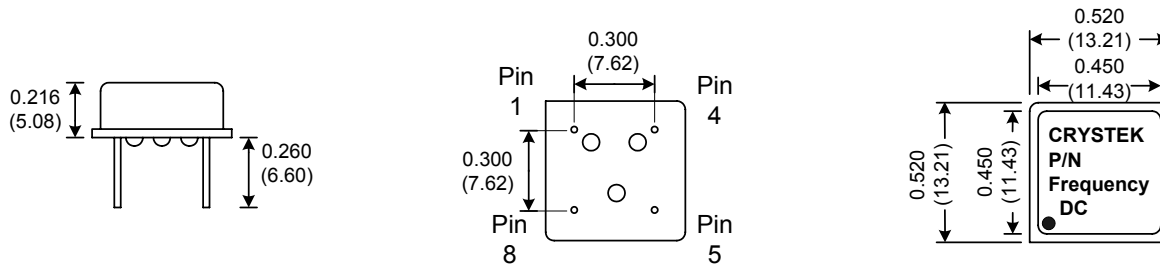
# Clock Oscillator



**Frequency Range:** 1.544MHz to 70MHz  
**Frequency Stability:** ±20ppm to ±100ppm  
**Temperature Range:**  
 Operating: -10°C to 70°C  
 (Option) -40°C to 85°C  
**Storage:** -55°C to 120°C  
**Input Voltage:** 2.5V ± 0.125V  
**Input Current:** 35mA Max  
**Output:** LVCMOS  
 Symmetry: 45/55% Max @ 50% Vdd  
 Rise/Fall Time: 10ns Max @ 20% to 80%  
 Logic: "0" = 10% Vdd Max  
 "1" = 90% Vdd Min  
 Load: 15pF  
**Jitter RMS:** 5ps Typ, 10ps Max

Designed to meet today's requirements for low voltage applications. The S25xx Series uses only fundamental and 3rd overtone crystal designs for excellent jitter performance.

**Aging:** <3ppm 1st/yr, 1ppm every year thereafter



Crystek Part Number Guide		
Example: S2592-44.736		
Example: SE2592-44.736		
Temperature		Frequency Stability
-10/ 70°C	-40/ 85°C	
S2590	SE2590	+/- 100ppm
S2592	SE2592	+/- 50ppm
S2591	SE2591	+/- 25ppm
S2598	NA	+/- 20ppm

Tri-State Function	
Function pin 1	Output pin
Open	Active
"1" level 2.2V Min	Active
"0" level 0.4V Max	High Z

Specifications subject to change without notice.

TD-021012 Rev. C

