

## Part Number 601964

9X14 mm SMD, 3.3V, CMOS VCXO

**Frequency:** 100.000 MHz  
**Frequency Pulling:**  $\pm 20$ ppm APR Min  
**Temperature Range:** 0°C to 70°C  
**Storage:** -55°C to 120°C  
**Input Voltage:** 3.3V  $\pm$  0.3V  
**Input Current:** 15mA Typ, 25mA Max  
**Control Voltage:** +1.65VDC  $\pm$  1.65V  
**Output:** CMOS  
 Symmetry: 45/55% Max @ 50% Vdd  
 Rise/Fall Time: 3ns Max  
 Linearity:  $\pm 10\%$  Max  
 Logic: "0" = 10% Vdd Max  
 "1" = 90% Vdd Min  
 Load: 15pF  
 Output Current: 24mA Max  
**Jitter:** 12KHz to 80MHz: 0.5psec Typ, 1psec RMS Max  
**Phase Noise Floor:** -160dBc Typ,  
 -155dBc Max Guaranteed  
**Sub-Harmonics:** None  
**Aging:** <3ppm 1st/yr,  
 <1ppm every year thereafter

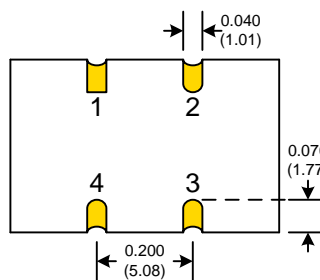
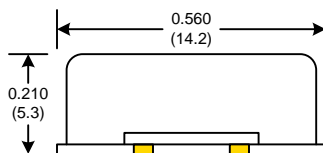
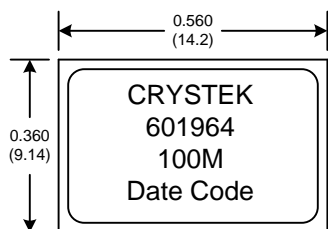


### Mechanical:

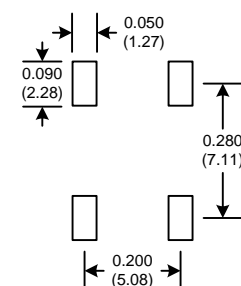
**Shock:** MIL-STD-883, Method 2002, Condition B  
**Solderability:** MIL-STD-883, Method 2003  
**Vibration:** MIL-STD-883, Method 2007, Condition A  
**Solvent Resistance:** MIL-STD-202, Method 215  
**Resistance to Soldering Heat:** MIL-STD-202, Method 210, Condition I or J

### Environmental:

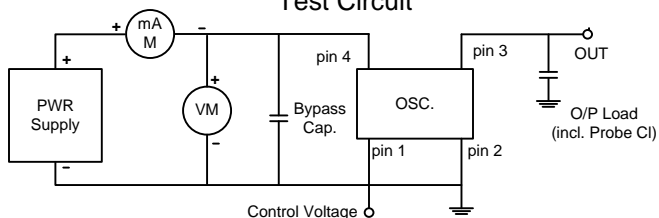
**Thermal Shock:** MIL-STD-883, Method 1011, Condition A  
**Moisture Resistance:** MIL-STD-883, Method 1004



### SUGGESTED PAD LAYOUT

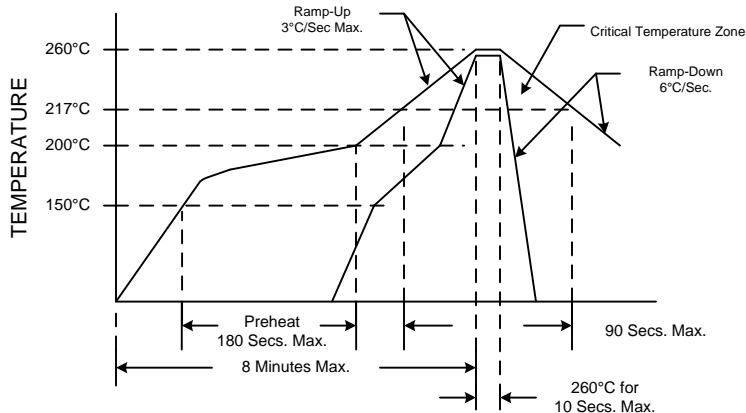


### Test Circuit



PIN	Function
1	Control Volt
2	GND
3	OUT
4	Vcc

### RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.

PN:601964 Rev. B