



# Model XO3285-XXX

## Shock Hardened TCXO

### Electrical Specifications

**Nominal Frequency (F<sub>0</sub>):** 10MHz to 24MHz

**Frequency Stability**

Over Temperature, ±1ppm, maximum  
 Aging/year, ±1ppm, maximum

**Frequency Adjustment**

Method, external voltage, 0.5V<sub>DC</sub> to 2.5V<sub>DC</sub>  
 Range, sufficient for 10 years aging  
 Slope, positive

**Output (clipped sine)**

Level (user selectable @ time of purchase)  
 1.0V<sub>P-P</sub>, typical  
 1.2V<sub>P-P</sub>, typical  
 1.5V<sub>P-P</sub>, typical  
 Load (all output level options), 10KΩ // 10pF, ±10%

**Mass:** 0.04oz (1.1 grams)

**SSB Phase Noise (typical for a 10MHz model)**

-80dBc/Hz @ 10Hz offset  
 -105dBc/Hz @ 100Hz offset  
 -135dBc/Hz @ 1kHz offset  
 -145dBc/Hz @ 10kHz offset

**Short Term Stability:** ±5 x 10<sup>-10</sup>, Tau=1 second

**Power Supply (available options)**

Voltage, +3.3 V<sub>DC</sub> and +5.0V<sub>DC</sub>, ±5%  
 Current Consumption, 3.0mA, maximum, no load

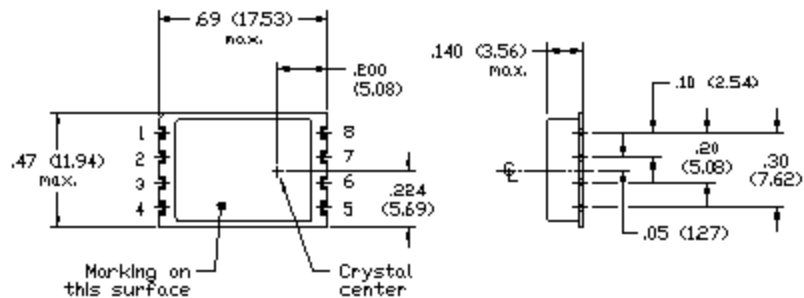
**Environmental**

Vibration, 10g peak, 10-2000Hz  
 Shock, 50kg, rise time 1msec, duration 7msec  
 Temperature Range  
 Operating, -30°C to +75°C  
 Storage, -55°C to +105°C

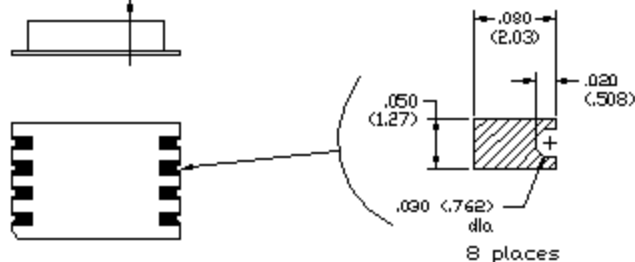
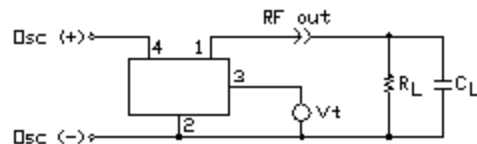
DIMENSIONS ARE IN INCHES (mm)

CONNECTIONS:

1. RF OUT
2. GROUND
3. V<sub>tune</sub>
4. V<sub>cc</sub>
5. DO NOT CONNECT
6. DO NOT CONNECT
7. DO NOT CONNECT
8. DO NOT CONNECT



Recommended direction of flight



Revised: May 20, 2003 Preliminary Specifications subject to change without notice