TCXO

Clipped Sinewave

Technical Data

S5200 Series

ACTUAL SIZE

Description

A high performance temperature compensated crystal oscillator. The small size and low power consumption of this TCXO makes it ideally suited for wireless applications.

Applications & Features

- Cellular applications (GSM, TDMA, CDMA)
- GPS
- Mobile and portable radio/telephone
- Communications transceivers

Frequency Range:	8.4672 MHz to 34.368 MHz
Frequency Stability:	±1.0, 1.5, 2, 3 or 5 ppm max
Temperature Range:	
Operating:	0 to +55°C, -15 to +55°C, -30 to +60°C
Storage:	-40 to +85°C
Supply Voltage:	5V ±5%
Supply Current:	3mA max: Clipped Sinewave
Output Level:	1.0V peak to peak min Clipped Sinewave
Output Load:	20KΩ // 5 pF
Voltage Stability:	±0.3 ppm @ 5V ±5%
Frequency Adjustment:	±3 ppm min (externally accessible, internal trimmer)
Aging/Year:	±1 ppm max
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 B
Environmental:	
Thernal Shock:	MIL-STD-883, Method 1011, Condition A

Part Numbering Guide

S 5 2 3 6 L S

- **SaRonix**
- **Supply Voltage**
  5 = 5V
- **Package Size**
  2 = 18.5 x 12 x 10
- **Frequency Stability**
  3 = ±1.0 ppm max, 0 to +55°C only
  4 = ±1.5 ppm max, -15 to +55°C or 0 to +55°C only
  5 = ±2.0 ppm max
  7 = ±3.0 ppm max
  9 = ±5.0 ppm max
- **Operating Temperature**
  1 = 0 to +55°C
  3 = -15 to +55°C
  6 = -30 to +60°C
- **Package Type**
  Through Hole
- **Output**
  S = Clipped Sinewave

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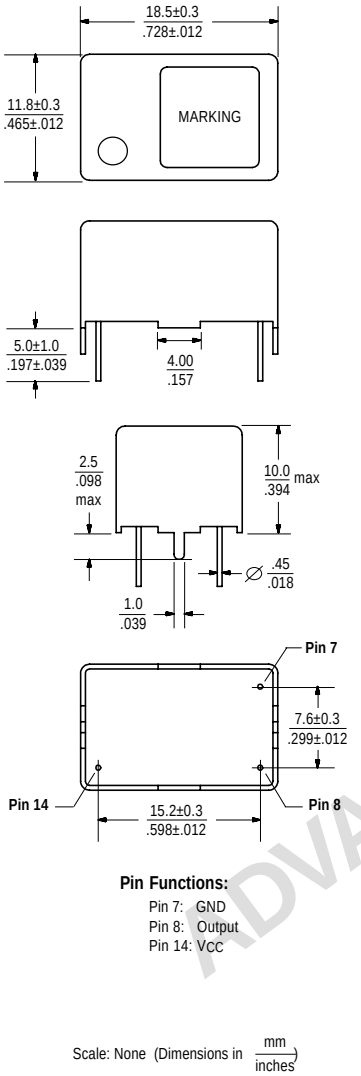
Package Details

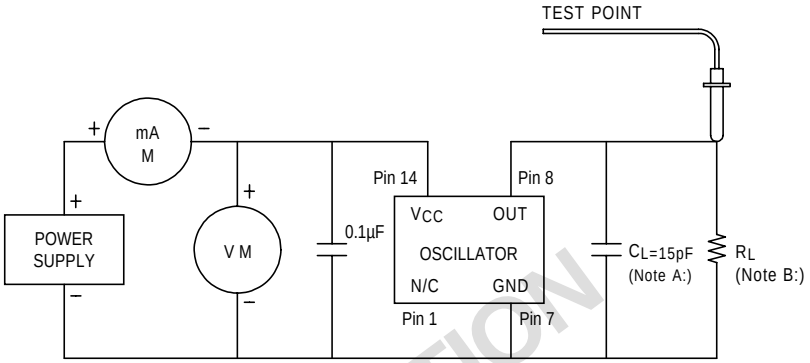


Pin Functions:

Pin 7: GND
Pin 8: Output
Pin 14: V_{CC}

Scale: None (Dimensions in $\frac{mm}{inches}$)

Test Circuit



NOTE A: C_L includes probe and fixture capacitance.
NOTE B: 10KΩ, 20KΩ

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