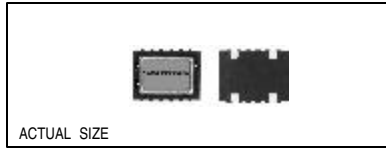


Technical Data

S6700/S5700 Series



Description

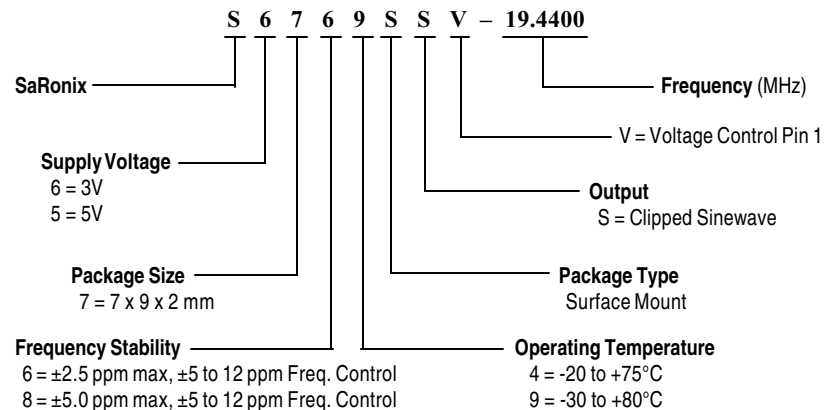
A surface mountable, digitally temperature compensated crystal oscillator for both 3 and 5Volt operations. The very small size, extremely low profile and low power consumption of this TCVCXO makes it ideally suited for portable, wireless applications such as cellular and cordless telephones. The hermetically sealed ceramic package is fully compatible with standard surface mounting processes.

Applications & Features

- Cellular Telephones (GSM, PDC, TDMA, CDMA)
- GPS
- Mobile and Portable Radio/Telephone
- Communications Transceivers
- Cordless Telephones
- 3 and 5Volt operations
- Very low profile, 2mm max height package
- Hermetically sealed packages are compatible with standard board washing techniques

Frequency Range:	12.6 MHz to 19.68 MHz
Frequency Stability:	vs. temperature: ± 2.5 or ± 5.0 ppm max vs. supply voltage: ± 0.3 ppm max vs. aging: ± 1 ppm max per year vs. load: ± 0.3 ppm max, C_L : ($[10k\Omega/10pF] \pm 10\%$)
Temperature Range:	Operating: -30 to +80°C or -20 to +75°C
Supply Voltage:	3V $\pm 5\%$ or 5V $\pm 10\%$
Supply Current:	2.0mA max
Output Level:	1.0V peak-to-peak min, Clipped Sinewave
Output Load:	10K Ω // 10pF
Frequency Control Range:	± 5 to ± 12 ppm, 0.5 to 2.5V
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
Environmental:	Gross Leak Test: MIL-STD-883, Method 1014, Condition C Fine Leak Test: MIL-STD-883, Method 1014, Condition A2 Thermal Shock: MIL-STD-883, Method 1011, Condition A Humidity: MIL-STD-202, Method 103, Condition C

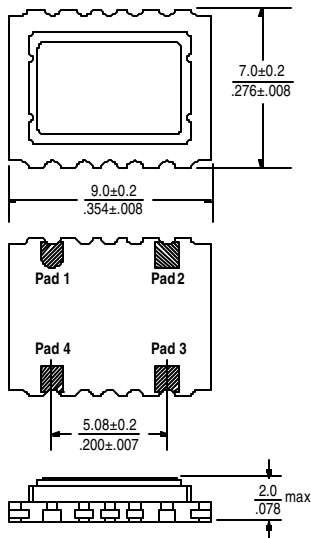
Part Numbering Guide



Technical Data

S6700/S5700 Series

Package Details

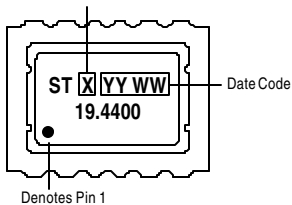


Pad Functions:

Pad 1: Control Voltage Pad 3: Output
Pad 2: GND Pad 4: Vcc

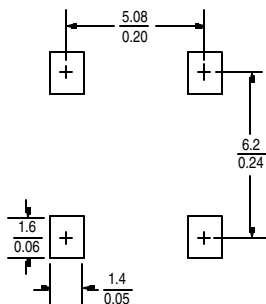
Marking Format *

Frequency Stab. & Temp. Range
 1 = 2.5ppm, ±5 to 12ppm FC, -30 to +80°C
 2 = 2.5ppm, ±5 to 12ppm FC, -20 to +75°C
 3 = 5.0ppm, ±5 to 12ppm FC, -30 to +80°C
 4 = 5.0ppm, ±5 to 12ppm FC, -20 to +75°C



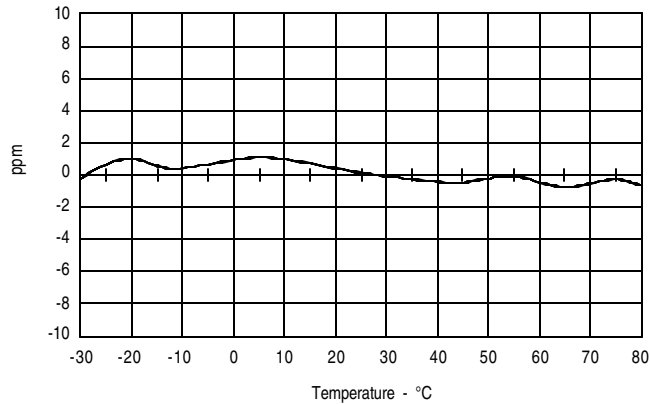
* Exact location of items may vary

Recommended Land Pattern

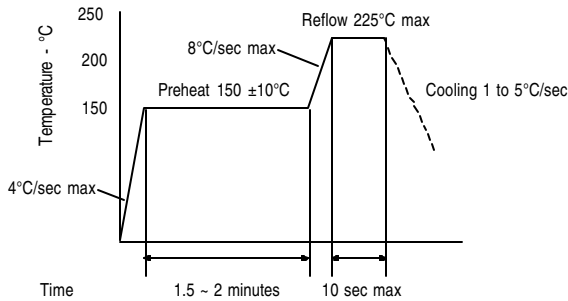


Scale: None (Dimensions in mm/inches)

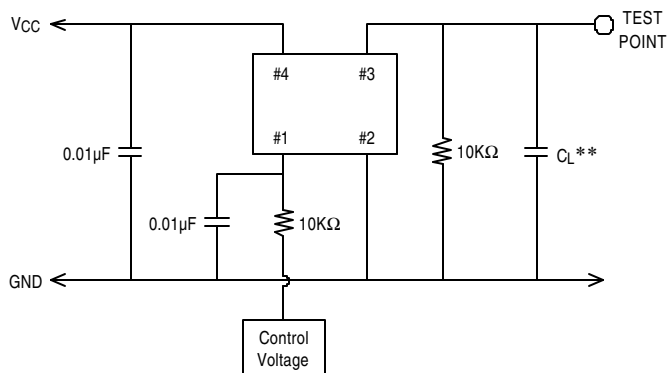
Typical Frequency vs. Temperature Characteristics



Solder Reflow Guide



Test Circuit



**C_L = 10pF (Including probe and jig capacitance)

All specifications are subject to change without notice.