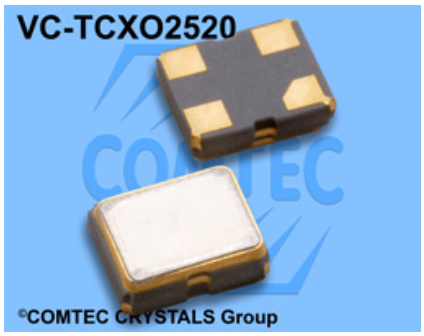
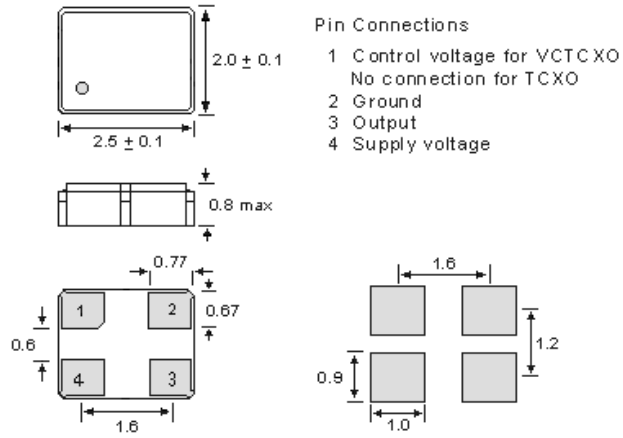


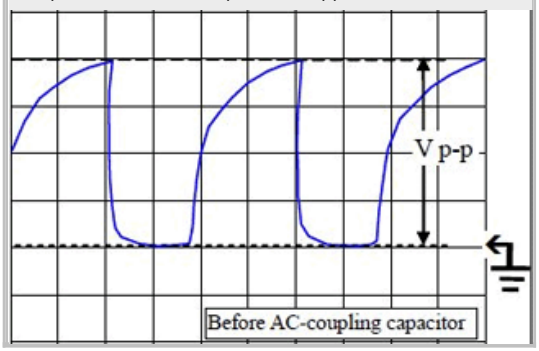
VC-TCXO-Oscillator SMD VC-TCXO2520CS2.8 2.8V
Clipped Sine Wave l Wave form code is " CS "

- Voltage Control Temperature Compensated Crystal Oscillator
- SMD in ceramic case (2.5 x 2.0 x 0.8) mm on Tape & Reel
- Electrical Frequency Tuning (EFC) by external Control voltage
- RoHS conform; Lead-free product
- Vibration: MIL-STD-202F method 204, 35G, 50 to 2000 Hz
- Shock: MIL-STD-202F method 213B, test cond. E, 1000GG 1/2 sine wave
- Available in many standard and special frequencies

VC-TCXO2520CS2.8 2.8V



Output Wave Form at pin 3 – Clipped sine wave



Specifications

Holder Type:	VC-TCXO2520CS2.8 2.8V (Voltage code is " 2.8 ")
Frequency Range:	10.0 MHz to 52.0 MHz
Standard Frequencies (Part list):	19.44, 20.0, 25.0, 26.0, 40.0 MHz
Input Voltage:	+ 2.8V ± 5%
Frequency Stability:	±0.5ppm to ±2.5ppm
Freq. Stability vs Temperature:	0° to 50°C (±0.5ppm) to -40 to +85°C (±1.0 to ± 3.0ppm)
Freq. Stability vs Aging:	± 1.0 ppm, first year at 25 °C
Freq. Stability vs Voltage Change:	± 0.2 ppm max., for a ± 5% input voltage change
Freq. Stability vs Load Change:	± 0.2 ppm max., for a ± 10% load condition change
Freq. Stability vs Reflow (SMD type):	± 0.1 ppm max., 1 reflow and measured 24 hours afterwards
Output Voltage Level (peak to peak):	0.8Vp-p (min.)
Output format:	DC coupled. Requires an external AC-Coupling capacitor at pin 3. 1000 pF is recommended.
Current Consumption:	9.6 ~15 MHz: 1.5mA max, 15.01 ~ 26.0 MHz: 2.0mA 26.01 ~ 40.0 MHz: 2.5mA
Pin 1 VCTCXO only (EFC):	Standard +1.5V ± 1.0V for all input voltages. Deviation Range: ±5.0 ppm (min.) , Vcontrol = +1.5 V±1.0 V. Input Impedance: 1MOhm min.; Linearity ±10% max. Modulation Bandwidth: 3kHz min. Measured at -3 dB
Start Up Time:	2 ms (typ.) ; 5ms (max.) (reach 90% amplitude and at +25°C ± 2°C)
Output:	10kOhm // 10pF
Phase Noise (13MHz as example):	-80dBc/Hz at 10Hz offset, -115dBc/Hz at 100Hz offset -135dBc/Hz at 1kHz offset, -148dBc/Hz at 10kHz offset -148dBc/Hz at 100kHz offset
Storage Temperature:	-40°C to +85°C or -55 to +125°C (Package dependent)
Reflow Condition:	260°C max. for 10 sec.

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