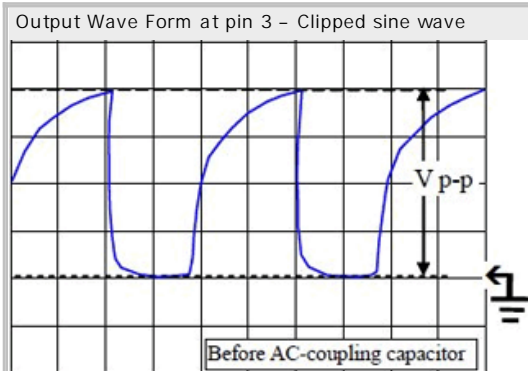
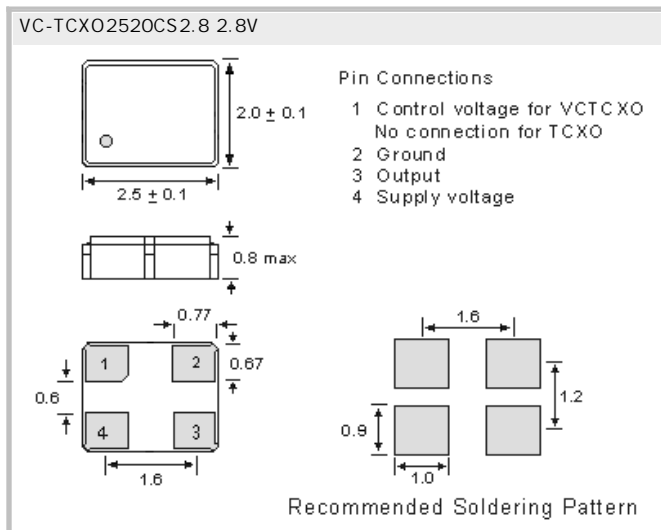


VC-TCXO-Oscillator SMD VC-TCXO2520CS2.8 2.8V  
Clipped Sine Wave I Wave form code is " CS "

- 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



## Specifications - Product No. G026000000I QXVPN33LE

|                                      |   |
|--------------------------------------|---|
| Holder Type:                         | VC-TCXO2520CS2.8 2.8V (Voltage code is " 2.8 ")   |
| Frequency:                           | 26.000000 MHz   |
| Input Voltage:                       | + 2.8V ± 5%   |
| Frequency Stability:                 | ± 2.0 ppm at 25°C   |
| Operating Temperature Range:         | ± 2.0 ppm over -30°C to +85°C   |
| 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   |
| Output Voltage Level (peak to peak): | 0.8Vp-p (min.)  |
| Maximum Supply Current:              |   |
| Pin 1 VCTCXO only (EFC):             | Standard +1.5V ± 1.0V for all input voltages.<br>Deviation Range: ± 5.0 ppm ( min. ) , Vcontrol = + 1.5 V± 1.0 V.<br>Input Impedance: 1MΩ min.; Linearity ± 10% max.<br>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:                              | 10kΩ // 10pF  |
| Phase Noise (13MHz as example):      | -80dBc/Hz at 10Hz offset, -115dBc/Hz at 100Hz offset<br>-135dBc/Hz at 1kHz offset, -148dBc/Hz at 10kHz offset<br>-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.  |

### GERMANY:

COMTEC CRYSTALS GmbH · Sultenstrasse 12-14  
8 5 5 8 6 P o i n g / G E R M A N Y  
Phone +49 8121 778160 · Fax +49 8121 778177  
e-Mail [info@comtec-crystals.com](mailto:info@comtec-crystals.com)  
Internet: <http://www.comtec-crystals.com>  
Subject to change without prior notice.



Technical Data and Graphics are all under  
Copyright (c) of Comtec Crystals Group.

### FRANCE:

COMTEC CRYSTALS SARL · 23, rue du Faucon  
6 7 5 0 0 H a g u e n a u / F R A N C E  
Phone +33 388 732162 · Fax +33 388 730118  
e-Mail [sales@comtec-crystals.com](mailto:sales@comtec-crystals.com)  
Internet: <http://www.comtec-crystals.com>  
Sous réserve de modifications.