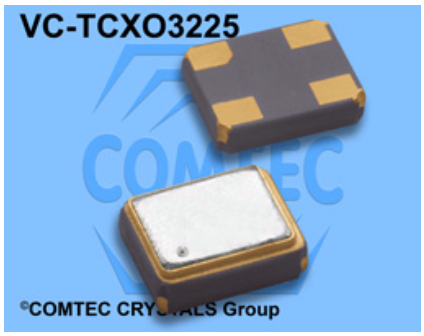
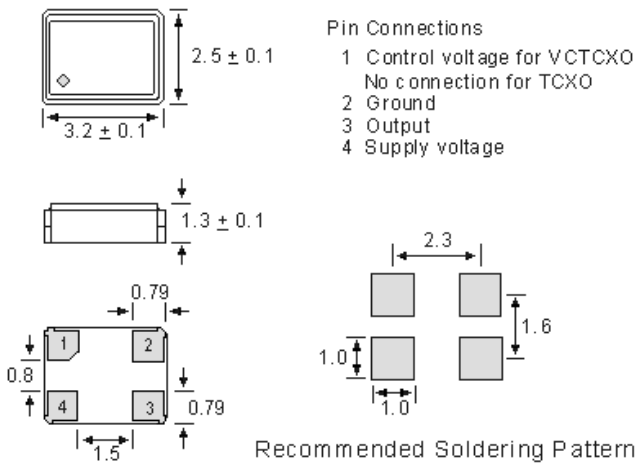
COMTEC CRYSTALS Group Data Sheet



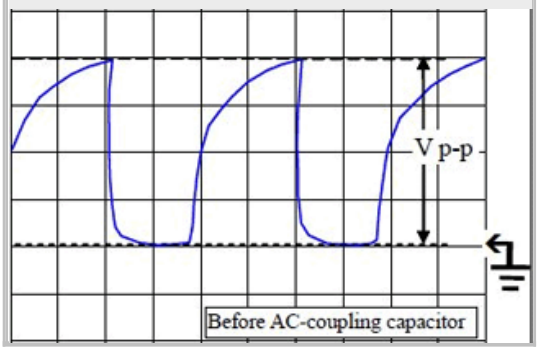
VC-TCXO-Oscillator SMD VC-TCXO3225CS2.5 2.5V
Clipped Sine Wave I Wave form code is " CS "

- Voltage Control Temperature Compensated Crystal Oscillator
- SMD in ceramic case (3.2 x 2.5 x 1.3) 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

External Dimensions



Output Wave Form at pin 3 – Clipped sine wave



Specifications - Product No. G040000000ERWVPN33JE

Holder Type:	VC-TCXO3225CS2.5 2.5V (Voltage code is " 2.5 ")
Frequency:	40.000000 MHz
Output Voltage Level (peak to peak):	0.8Vp-p (min.)
Input Voltage:	+ 2.5V ± 5%
Frequency Stability:	± 1.0 ppm at 25°C
Freq. Stability vs Temperature:	± 1.0 ppm from -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
Operating Temperature Range:	-30°C to +85°C
Maximum Supply Current:	2.5 mA max.
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 Load:	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.

GERMANY:
COMTEC CRYSTALS GmbH · Sultenstrasse 12-14
85586 Poing / GERMANY
Phone +49 8121 778160 · Fax +49 8121 778177
e-Mail 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
67500 Haguenau / FRANCE
Phone +33 388 732162 · Fax +33 388 730118
e-Mail sales@comtec-crystals.com
Internet: http://www.comtec-crystals.com
Sous réserve de modifications.