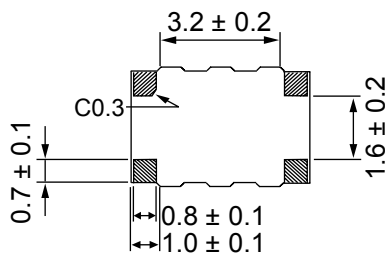
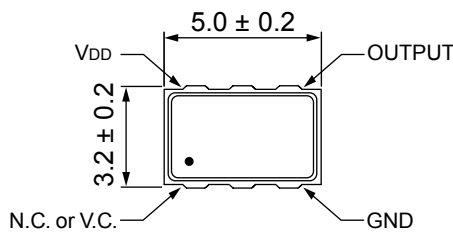


The HEC, INC. highly stable, ultra-miniature TCXO/VCTCXO is one of the most compact trimmer-less TCXO devices with an output of 0.8Vp-p minimum clipped sinewave. This TCXO is only 5 x 3.2 x 1.4 (H) mm, 0.06g, and 0.022 cm³, and is manufactured with a ceramic base and metal lid to assure very good aging characteristics and reliability. HEC offers this device in +/- 2.5 PPM over -30 to +75 Celsius and the ability to withstand IR or vapor phase reflow soldering processes to make this TCXO ideal for your compact and high stability requirements.

ELECTRICAL SPECIFICATIONS

| PARAMETERS | CONDITIONS | SPECIFICATIONS | |
|----------------------------------|----------------|--|-----------------------------|
| HEC PART NUMBER | | HE-TXO-53 | HE-VTXO-53 |
| FREQUENCY RANGE | | 10.000 - 40.000 MHz | |
| FREQUENCY TOLERANCE | | ±1.5 PPM Max. | |
| FREQUENCY STABILITY | -30°C to +75°C | ±2.5 PPM Max. | |
| OPERATING TEMPERATURE RANGE | | -30°C to +75°C (-40°C to +85°C optional) | |
| STORAGE TEMPERATURE RANGE | | -55°C to +125°C | |
| SUPPLY VOLTAGE | | +3.0V | |
| CALIBRATION AT VOLTAGE VARIATION | +3.0V ± 5% | ±0.3 PPM Max. | |
| INPUT CURRENT | | 1.5 mA Max. | |
| LOAD | | 10KΩ // 10pF | |
| OUTPUT | | 0.8V p-p Min. | |
| AGING | @ 25°C / Year | ±1.0 PPM | |
| VOLTAGE CONTROL RANGE | @ 25°C | N/A | ±12 PPM ± 25% +1.5V ± 1V |

MECHANICAL DRAWING



Recommended Solder Pad Layout

