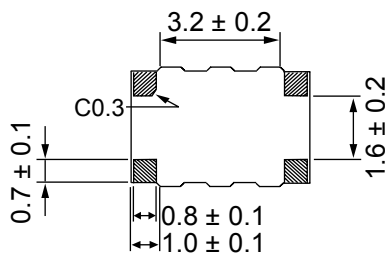
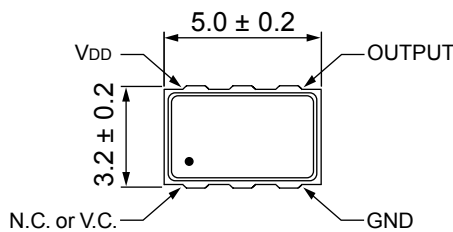


The HEC, INC. highly stable, ultra-miniature TCXO/VCTCXO is one of the most compact trimmer-less TCXO devices with an output of 0.8Vp-p minimum clipped sinewave. This TCXO is only 5 x 3.2 x 1.4 (H) mm, 0.06g, and 0.022 cm³, and is manufactured with a ceramic base and metal lid to assure very good aging 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

