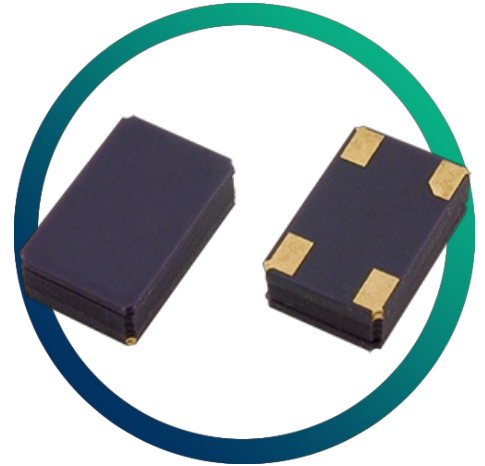


VCXO2HV

High Frequency VCXO with Military Temperature Range



- Military temperature range -55+125°C
- Low noise - fundamental crystal
- High shock & vibration resistance
- Optional tinned pads (Ag/Cu/Zn)

CONFIGURABLE OPTIONS

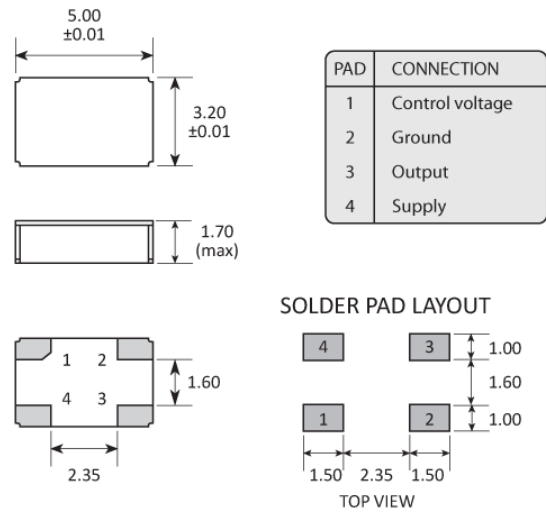
Parameter	Option Code
Frequency	
Absolute pulling range (max) * see note below	
Any	
±130ppm over -40 to +85°C	B
±110ppm over -55 to +125°C	C
Terminations	
Gold plated pads	
Tinned pads (Ag/Cu/Zn)	T

* APR is inclusive of calibration @ 25°C, operating temperature range, supply voltage change, load change and ageing (1 year)

SPECIFICATIONS

Frequency range	40.0 ~ 130MHz
Dimensions	5.0 x 3.2 x 1.7mm
Supply voltage (V_{DD})	+3.3V ($\pm 5\%$)
Voltage control (V_{CTL})	+1.65V $\pm 1.65V$ Positive slope, 10% linearity
Storage temperature range	-65 to +125 °C
Supply current (no load)	10mA max @ 40.0MHz 20mA max \leq 100.0MHz 25mA max @ 130MHz
Driving ability	CMOS
Load	3pF min, 27pF max
Logic levels	'0' level = +0.4V max '1' level = $V_{DD} - 0.5V$ min
Start up time	5ms max
Waveform symmetry	40:60 max @ 50% V_{DD}
Rise / fall times	2ns max (@15pF)
Shock resistance	5,000g, 0.3ms $\frac{1}{2}$ -sine
Vibration resistance	20g rms 10.0 ~ 2,000Hz
Soldering condition	260 °C, 10 sec max

PACKAGE DRAWING



A 47nF ceramic capacitor must be connected between GND and V_{DD}

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the VCXO2HV please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Once we've received your request our expert team will then produce a quotation tailored to meet your needs using the option codes you've selected.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

APPLICATIONS

Military & defence

HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to <500V)



Moisture Sensitivity Level (MSL): 1 (or not applicable)

CONSTRUCTION

Ceramic base and lid

COMPLIANCE



Lead-free (< 0.1% by weight)

RoHS compliant with no exemptions. [See our declaration](#)REACH compliant. [See our statement](#)Free of conflict minerals. [See our declaration](#)Free of Halogens. [See our declaration](#)Free of Ozone-depleting substances. [See our declaration](#)