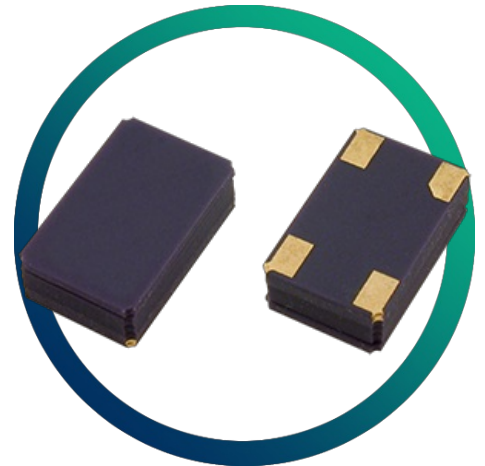


VCXO2EV

CMOS VCXO for Harsh Environments

- Suitable for Avionics, Down-hole, Geothermal etc
- Extreme temperature ranges up to 210°C
- High stability & low ageing under extremes
- High shock & vibration resistance
- Low current consumption



CONFIGURABLE OPTIONS

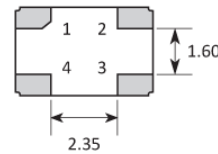
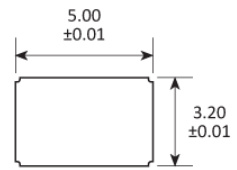
Parameter	Option Code
Frequency	
Absolute pulling range (max) * see note below	
Any	
±130ppm over -40 to +85°C	B
±110ppm over -55 to +125°C	C
±90ppm over -10 to +150°C	R
±50ppm over -10 to +175°C	S
±30ppm over -10 to +210°C	T
Terminations	
Gold plated pads	
Tinned Ag/Cu/Zn	T

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

SPECIFICATIONS

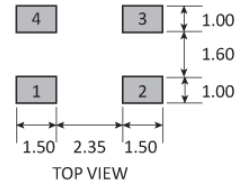
Frequency range	5.0 ~ 40.0MHz
Dimensions	5.0 x 3.2 x 1.7mm
Supply voltage (V_{DD})	+3.3V ($\pm 5\%$)
Voltage control (V_{CTL})	+1.65V $\pm 1.65V$ Positive slope, 10% linearity
Storage temperature range	-65 to +125 °C
Supply current (no load)	4mA max ≤ 10.0 MHz 5mA max ≤ 20.0 MHz 20mA max @ 40.0MHz
Driving ability	CMOS
Load	3pF min, 47pF 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	5ns max (@15pF)
Shock resistance	10,000g, 0.3ms, ½ sine
Vibration resistance	80g rms 10.0 ~ 2,000Hz
Soldering condition	260 °C, 10 sec max

PACKAGE DRAWING



PAD	CONNECTION
1	Control voltage
2	Ground
3	Output
4	Supply

SOLDER PAD LAYOUT



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

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the VCXO2EV 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

Avionics
Down hole
Geothermal

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](#)