

# GTXO-C86V

## CMOS VCTCXO High Precision High Temperature



- High Precision  $\pm 0.1\text{ppm}$
- High Temperature Operation  $+105^\circ\text{C}$
- Tristate Function
- CMOS output
- Voltage Control

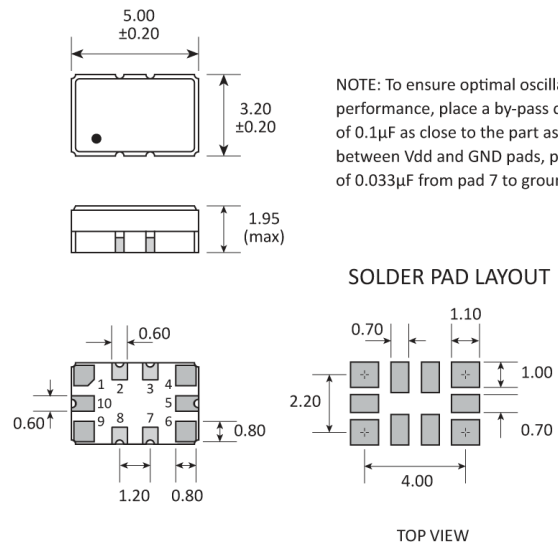
### CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Frequency stability	
Any	
$\pm 0.05\text{ppm}$	A
$\pm 0.1\text{ppm}$	B
$\pm 0.2\text{ppm}$	P
$\pm 0.28\text{ppm}$	D
$\pm 0.5\text{ppm}$	E
$\pm 1.0\text{ppm}$	F
Temperature range	
Any	
$-20$ to $+70^\circ\text{C}$	N
$-40$ to $+85^\circ\text{C}$	I
$-40$ to $+95^\circ\text{C}$	E
$-40$ to $+105^\circ\text{C}$	D
Supply voltage ( $V_{DD}$ )	
Any	
$+3.3\text{V} \pm 5\%$	L
$+2.5\text{V} \pm 5\%$	J

## SPECIFICATIONS

Frequency range	10.0 ~ 52.0MHz
Dimensions	5.0 x 3.2 x 1.95
Storage temperature range	-55 to +125°C
Supply voltage stability	±0.1ppm, $V_{DD} \pm 5\%$
Ageing	±1.0ppm max first year
Supply current	7.5mA max
Driving ability	15pF CMOS
Waveform symmetry	45:55 @ 50% $V_{DD}$
Logic levels	'0' level = 10% $V_{DD}$ max '1' level = 90% $V_{DD}$ min
Start up time	5ms max
Rise / Fall time	3.0ns max
Frequency adjustment	None ±5ppm, +1.5V ±1.0V
Phase noise (typ @ 20.0MHz)	-122dBc/Hz @ 100Hz -142dBc/Hz @ 1kHz -154dBc/Hz @ 10kHz -157dBc/Hz @ 100kHz -159dBc/Hz @ 1MHz
Frequency Tolerance @25°C	±1.0ppm max

## PACKAGE DRAWING



PAD	CONNECTION
1	Control voltage
2	Do not connect
3	Do not connect
4	Ground
5	Enable / disable
6	Output
7	VC filter
8	Not connected
9	Supply (Vdd)
10	Ground

Dimensions in mm

## ORDERING INFORMATION

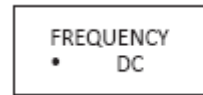
To request a quotation for the GTXO-C86V please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at [sales@golledge.com](mailto:sales@golledge.com).

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.

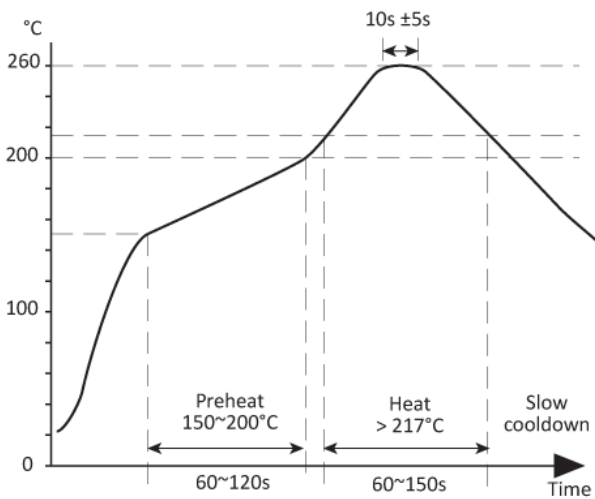
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

## MARKING



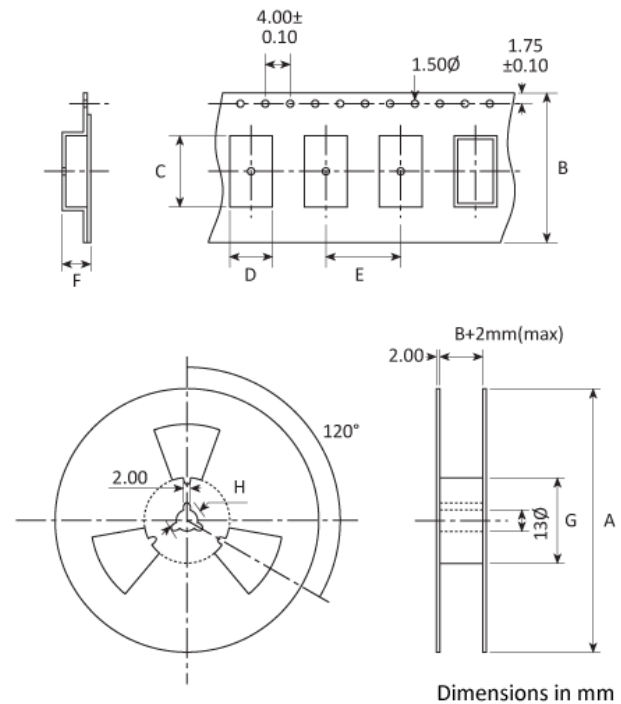
- Pin 1
- Marking type: Laser
- DC = Date code

## SOLDERING PROFILE



Lead free solderability limits: 260°C ± 5°C x 10s ± 5s x 2.

## TAPE & REEL SPECIFICATION



A:180 / B:13.0 / C:5.3 / D:3.5 / E:8.0 / F:1.9 / G:61

## HANDLING & STORAGE

---



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



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

## 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](#)