GTXO-86T

Sinewave TCXO High Precision High Temperature

- High Precision ±0.1ppm
- High Temperature Operation +105°C
- Tri-state function
- Clipped sine output
- Miniature SM package

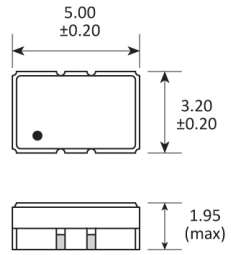
CONFIGURABLE OPTIONS

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

SPECIFICATIONS

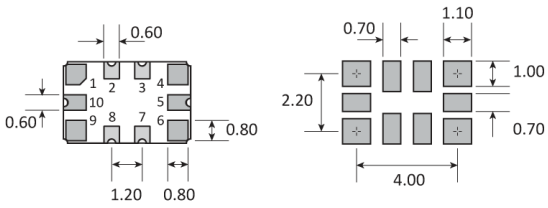
Frequency range	10.0 ~ 52.0MHz
Dimensions	5.0 x 3.2 x 1.95
Storage temperature range	-55 to +125°C
Supply voltage stability	±0.1ppm, V_{DD} ±5%
Ageing	±1.0ppm max first year
Supply current	5.0mA max
Output waveform	Clipped sine, 0.8V p-p, +DC offset
Load (Z_L)	10kΩ // 10pF
Start up time	5ms max
Phase noise (typ @ 20.0MHz)	-122dBc/Hz @ 100Hz -142dBc/Hz @ 1kHz -154dBc/Hz @ 10kHz -157dBc/Hz @ 100kHz -159dBc/Hz @ 1MHz
Frequecny Tolerance @25°C	±1.0ppm max

PACKAGE DRAWING



NOTE: To ensure optimal oscillator performance, place a by-pass capacitor of 0.1µF as close to the part as possible between Vdd and GND pads, plus one of 0.033µF from pad 7 to ground.

SOLDER PAD LAYOUT



TOP VIEW

PAD	CONNECTION
1	Not connected
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

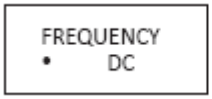
To request a quotation for the GTXO-86T please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

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.

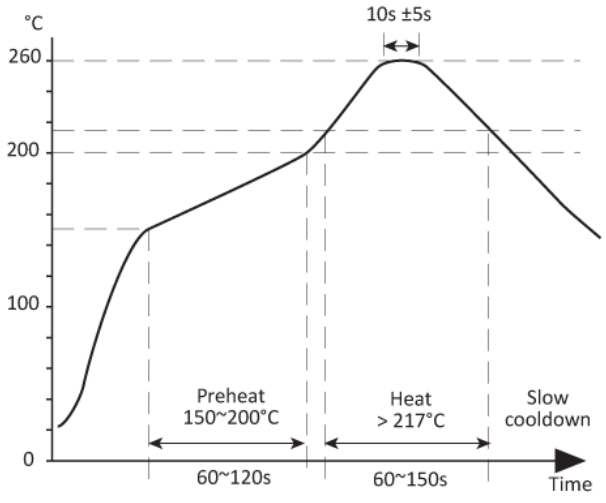
MARKING



- Pin 1

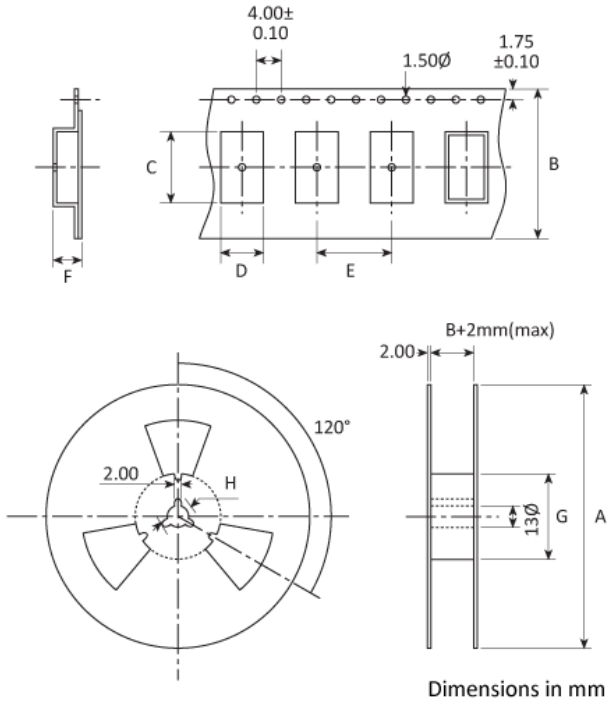
Marking type: Laser
DC = Date code

SOLDERING PROFILE



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

TAPE & REEL SPECIFICATION



Dimensions in mm

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