

# GTXO-83T

## 2.4V ~ 5.5V SM (VC)TCXO Clipped Sine

- Fixed-frequency and voltage-controlled variants
- Supply voltage from 2.4V ~ 5.5V
- Low power consumption
- Miniature SM package
- Excellent frequency stability



### CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Frequency stability	
Any	
±3.0ppm max	K
±2.5ppm max	J
±2.0ppm max	H
±1.5ppm max	G
Temperature range	
Any	
0 to +50°C	R
-10 to +60°C	C
-20 to +70°C	N
-30 to +75°C	S
-40 to +85°C	I

## SPECIFICATIONS

Frequency range	6.0 ~ 45.0MHz
Dimensions	5.0 x 3.2 x 1.15mm
Storage temperature range	-40 to +85 °C
Supply voltage stability	±0.2ppm, $V_{DD} \pm 5\%$
Load stability	±0.2ppm, $Z_L \pm 10\%$
Ageing	±1.0ppm max first year
Supply voltage ( $V_{DD}$ ) * see note below	+2.4V ~ +5.5V
Supply current (max)	1.5mA (6.0 ~ 20.0MHz) 2.0mA (20.0 ~ 32.0MHz) 2.5mA (32.0 ~ 45.0MHz)
Output waveform	Clipped sine, 0.8V p-p, +DC offset
Test load ( $Z_L$ )	10k $\Omega$ // 10pF
Start up time	3ms max
Phase noise (typ @ 20.0MHz)	-54dBc/Hz @ 1Hz -86dBc/Hz @ 10Hz -135dBc/Hz @ 1kHz -151dBc/Hz @ 100kHz
Frequency tolerance @ 25 °C	±2.0ppm max, 60mins after reflow

\* Will operate within specification on any supply voltage from +2.4 V to +5.5V

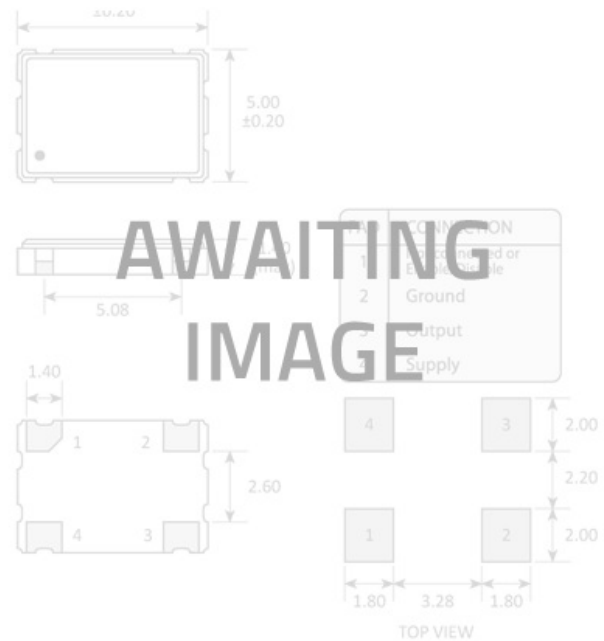
## ORDERING INFORMATION

To request a quotation for the GT XO-83T 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).

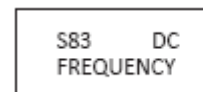
Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

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

## PACKAGE DRAWING



## MARKING

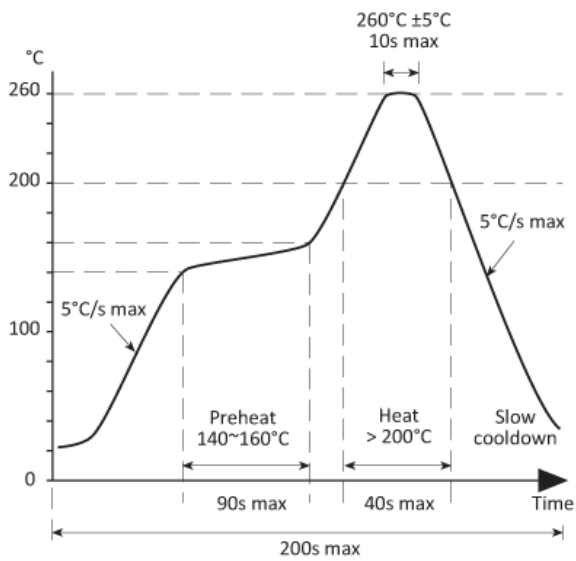


Marking type: Laser

DC = Date Code in YM, eg. "GF" = Jun 2017

	A	B	C	D	E	F	G	H	J	K	L	M
Y	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

## SOLDERING PROFILE



## CONSTRUCTION

Ceramic body with gold-plated pads Metal lid, seam sealed

## HANDLING & STORAGE



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



Moisture Sensitivity Level (MSL): 1

## COMPLIANCE



Lead-free (< 0.1% by weight )



RoHS compliant with no exemptions.