

GTXO-93T

1.8V ~ 3.6V SM (VC)TCXO for GPS

apps

- Analogue compensation no steps
- Ideally suited for GPS apps
- Supply voltage from 1.8V ~ 3.6V
- Low power consumption
- Miniature SM package

CONFIGURABLE OPTIONS



Parameter	Option Code
Frequency	
Frequency stability	
Апу	
±2.5ppm max	J
±2.0ppm max	Н
±1.5ppm max	G
±0.5ppm max	E
Temperature range	
Any	
0 to +50°C	R
-10 to +60°C	С
-20 to +75°C	Ν
-30 to +85°C	S





SPECIFICATIONS

Frequency range	10.0 ~ 52.0MHz
Dimensions	3.2 x 2.5 x 1.20mm
Storage	-40 to +85°C
temperature	
range	
Supply voltage	±0.2ppm, V _{DD} ±5%
stability	
Load stability	±0.2ppm, Z _L ±10%
Frequency slope	±0.05ppm/°C over -30+85°C
Ageing	±1.0ppm max first year
Supply voltage	+1.8V ~ +3.6V
(V _{DD})	
(V _{DD}) * see note below	
	1.5~2.0mA max
* see note below	1.5~2.0mA max Clipped sine, 0.8V p-p, +DC offset
* see note below Supply current	
* see note below Supply current Output waveform	Clipped sine, 0.8V p-p, +DC offset
* see note below Supply current Output waveform Test load (Z _L)	Clipped sine, 0.8V p-p, +DC offset 10kΩ // 10pF
* see note below Supply current Output waveform Test load (Z _L) Start up time	Clipped sine, 0.8V p-p, +DC offset 10kΩ // 10pF 3ms max
* see note below Supply current Output waveform Test load (Z _L) Start up time Harmonics	Clipped sine, 0.8V p-p, +DC offset 10kΩ // 10pF 3ms max -5dBc max
* see note below Supply current Output waveform Test load (Z _L) Start up time Harmonics Phase noise	Clipped sine, 0.8V p-p, +DC offset 10kΩ // 10pF 3ms max -5dBc max -130dBc/Hz @ 1kHz
* see note below Supply current Output waveform Test load (Z _L) Start up time Harmonics Phase noise Frequency	Clipped sine, 0.8V p-p, +DC offset 10kΩ // 10pF 3ms max -5dBc max -130dBc/Hz @ 1kHz ±2.0ppm max, 60mins after reflow

* Will operate within specification on any supply voltage from +1.8V to +3.6V

PACKAGE DRAWING







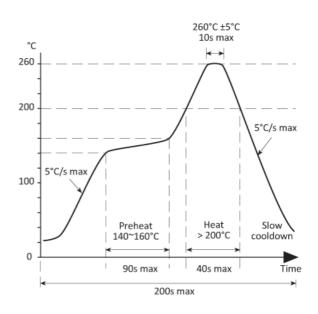
ORDERING INFORMATION

To request a quotation for the GTXO-93T 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.

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.

SOLDERING PROFILE



HANDLING & STORAGE

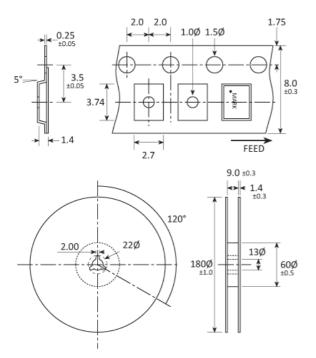


Human Body Model (HBM) 1A (250V to < 500V)



Moisture Sensitivity Level (MSL): 1

TAPE & REEL SPECIFICATION



Dimensions in mm





CONSTRUCTION

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

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)



Product is RoHS 2 compliant



Nominal Net Mass: 33mg

COMPOSITION

MCDFamily GTXO-93.pdf





OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

Come and visit

Eaglewood Park, ILMINSTER, Somerset, TA19 9DQ, England

Give us a call

Tel: +44 1460 256 100 Fax: +44 1460 256 101

Email us

Email

Tel

Email Web

Email

Web

Tel

sales@golledge.com

Our Worldwide Distributors

Belgium & Luxembourg

Alcom Electronics NV/SA



info@alcom.be www.alcom.be +32 (0)3 458.30.33

Email

Web

Email

Web

Email

Web

Email

Web

Email

Web

Tel

Tel

Tel

Tel

Tel

France





comp@es-france.com www.es-france.com +33 1 47 95 99 89

India



sales@v5semiconductors.com v5semiconductors.com +91-80-2661 0621



Alcom Electronics BV



info@alcom.nl alcom.nl +31 (0)10 288.25.00

Russia - Россия



elena@efo.ru www.golledge.ru +7(812)327-8654 China, Hong Kong - 中国 / 香港

Meiya China



sales@meiyatech.com www.meiyatech.com +86 755 2823 1923

Germany

MEV Elektronik Service GmbH



info@mev-elektronik.com www.mev-elektronik.com +49 54 24 23 40-0

Israel





sales@phnx.co.il www.phnx.co.il +972 9 764 4800

Norway

Link Nordic



bjorn.nyjordet@linknordic.com linknordic.com +47 93 22 68 90

Spain & Portugal

R.C. Microelectronica, S.A.



ventas@rcmicro.es www.rcmicro.es +34 93 260 21 66

Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations). To take advantage of our highly praised service get in touch with us today.

