

GTXO-93V

1.8V ~ 3.6V SM VCTCXO for GPS

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



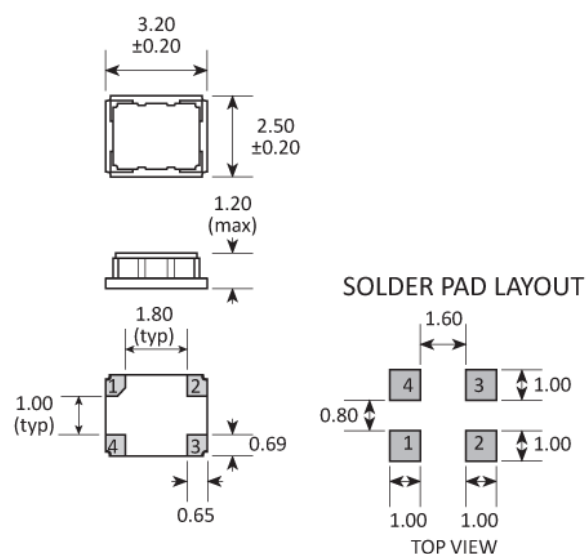
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Frequency stability	
Any	
±2.5ppm	J
±2.0ppm	H
±1.5ppm	G
±0.5ppm	E
Temperature range	
Any	
0 to +50°C	R
-10 to +60°C	C
-20 to +75°C	N
-30 to +85°C	S
Supply voltage (V _{DD})	
Will operate within specification on any supply voltage in the specified	
Any	
+1.8V	G
+2.3V ~ +3.6V (see note)	

SPECIFICATIONS

Frequency range	10.0 ~ 52.0MHz
Storage temperature range	-40 to +85 °C
Supply voltage stability	$\pm 0.2\text{ppm}$, $V_{DD} \pm 5\%$
Load stability	$\pm 0.2\text{ppm}$, $Z^L \pm 10\%$
Frequency slope	$\pm 0.05\text{ppm}/^\circ\text{C}$ over -30+85 °C
Ageing	$\pm 1.0\text{ppm}$ max first year
Supply current	1.5~2.0mA max
Output waveform	Clipped sine, 0.8V p-p, +DC offset
Test load (Z^L)	10k Ω // 10pF
Start up time	3ms max
Frequency adjustment	$\pm 8\text{ppm} \sim \pm 14\text{ppm}$, 1.5 \pm 1.0V
Harmonics	-5dBc max
Frequency tolerance @ 25 °C	$\pm 2.0\text{ppm}$ max, 60mins after reflow

PACKAGE DRAWING



PAD	CONNECTION
1	Freq adjustment
2	Ground
3	Output
4	Supply

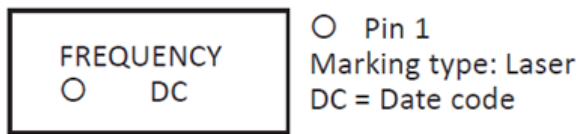
ORDERING INFORMATION

Product name + option codes + frequency Option codes must be included to fully specify a model. eg: GT XO-93V/JS 13.00MHz $\pm 2.5\text{ppm}$ -30+85 °C, TCXO with VC Option code X (eg GT XO-93V/X) denotes a custom spec.

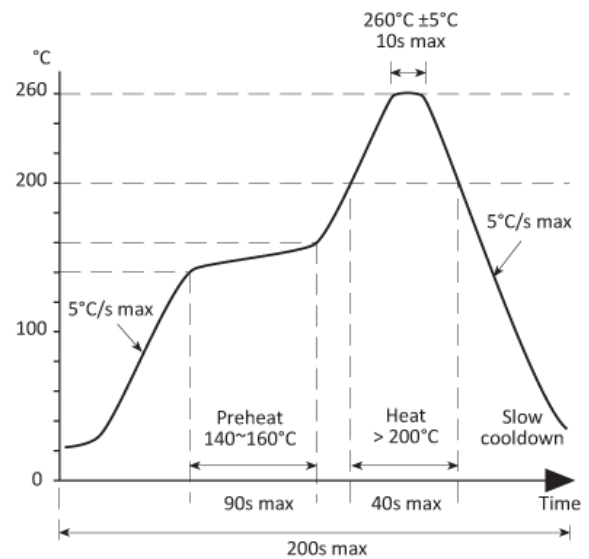
APPLICATIONS

Pending table

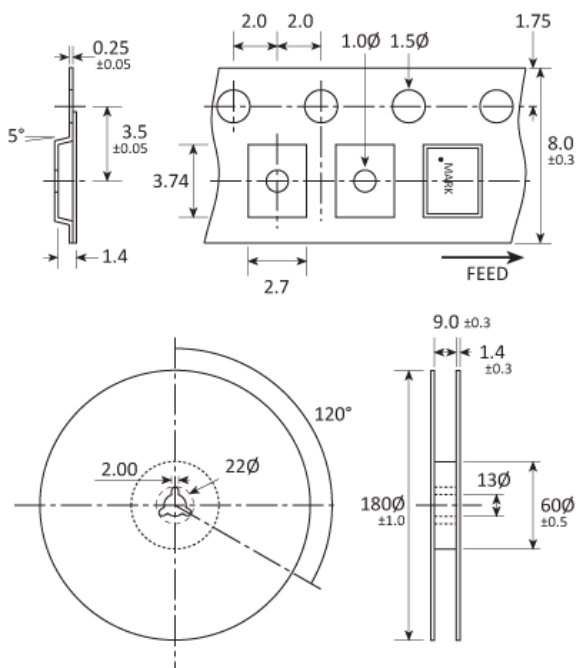
MARKING



SOLDERING PROFILE



TAPE & REEL SPECIFICATION



HANDLING & STORAGE



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



Moisture Sensitivity Level (MSL): 1

CONSTRUCTION

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

MATERIAL COMPOSITION



Product is RoHS 2 compliant



REACH Compliance Statement



text and link to Conflict Minerals pdf statement



Text and link to Halogen Free pdf statement



Text and link to Ozone depletion statement pdf



Nominal Net Mass: 33.180mg

COMPOSITION

MCDFamily GTXO-93.pdf

OTHER INFORMATION

About Golledge

The UK's leading suppliers of Frequency Control Products, we have been growing since 1990. This growth has been achieved through maintaining our focus firmly on our customers' requirements and by striving always to meet and exceed them. Our philosophy has always been based on quality and consistency of products and service.

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

sale@golledge.com

Our Worldwide Distributors



Belgium / Luxembourg

Alcom Electronics NV/SA



Belgium / Luxembourg

Alcom Electronics NV/SA



China, Hong Kong

Meiya Technology Co.Ltd.



China, Hong Kong

Meiya Technology Co.Ltd.



France

Equipements Scientifique,
Département Composants & Modules



France

Equipements Scientifique,
Département Composants & Modules



Germany

MEV Elektronik Service GmbH



Germany

MEV Elektronik Service GmbH

The UK's leading suppliers of Frequency Control Products, we have been growing since 1990. This growth has been achieved through maintaining our focus firmly on our customers' requirements and by striving to meet and exceed them. Our philosophy has always been based on quality and consistency of products and service.