# GVXO-338S

## CMOS 5.0V surface mount VCXO with low current consumption


- Wide pulling range
- Low current consumption
- 5.0V supply
- Miniature SM package
- Competitive pricing

## CONFIGURABLE OPTIONS

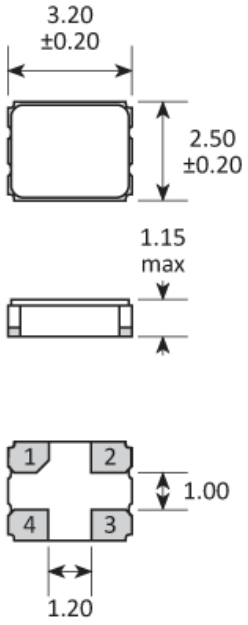
| Parameter | Option Code |
|---|---|
| Frequency | |
| Frequency pullability | |
| ±90ppm min | R |
| ±100ppm min | S |
| Frequency stability * see note below | |
| Any | |
| ±50ppm max | B |
| ±25ppm max | C |
| Operating temperature range | |
| Any | |
| -20 to +70°C | |
| -40 to +85°C | I |

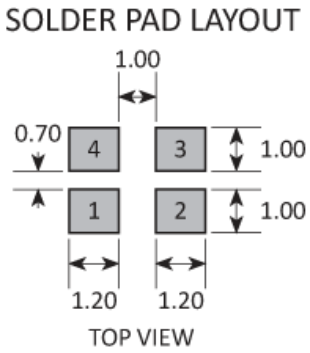
*** Frequency stability is inclusive of calibration @ 25°C, operating temperature range, supply voltage change, load change and first year ageing, with $V_{CTL}$ = 50%$V_{DD}$**

## SPECIFICATIONS

| | |
|---|---|
| Frequency range | 1.0 ~ 90.0MHz |
| Dimensions | 3.2 x 2.5 x 1.15mm |
| Voltage control | +2.5V ±2.0V, 10% linearity |
| Storage temperature range | -40 to +85°C |
| Supply voltage ($V_{DD}$) | +5.0V (±5%) |
| Supply current | 20mA max |
| Driving ability | 15pF CMOS |
| Logic levels | '0' level = 10%$V_{DD}$ max<br>'1' level = 90%$V_{DD}$ min |
| Waveform symmetry | 40:60 max @ 50%$V_{DD}$ |
| Rise / fall time (20%~80%$V_{DD}$) | 5ns max |
| Start up time | 10ms max |
| Net mass | 27.1mg |

## PACKAGE DRAWING




| PAD | CONNECTION |
|---|---|
| 1 | Control voltage |
| 2 | Ground |
| 3 | Output |
| 4 | Supply |

Dimensions in mm

## MARKING

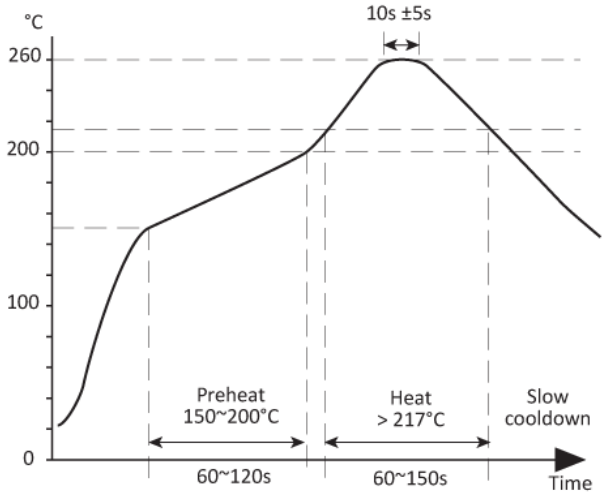

- Pin 1

Marking type: Laser

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

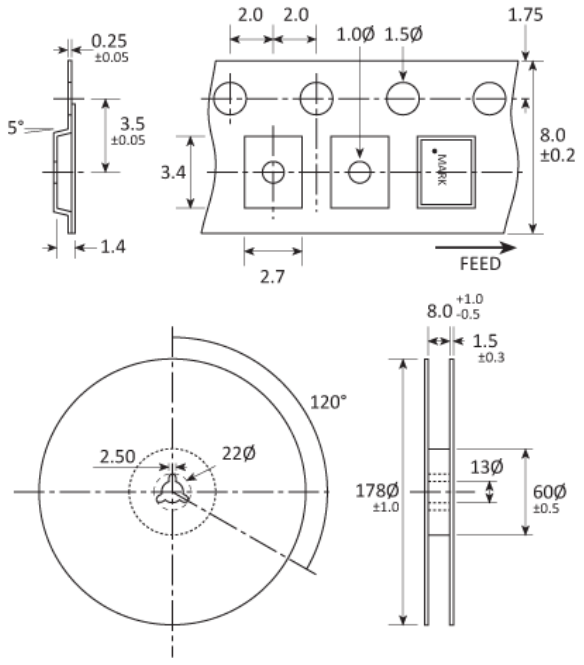
| | A | B | C | D | E | F | G | H | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Y | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| M | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |

## SOLDERING PROFILE




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

## TAPE & REEL SPECIFICATION




Dimensions in mm

## HANDLING & STORAGE

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

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

## CONSTRUCTION

Ceramic body with gold-plated pads
Metal lid
Seam sealed

## COMPLIANCE

Please refer to our **DOCUMENTS** section for more information.

Lead-free (< 0.1% by weight )

RoHS compliant with no exemptions.

REACH compliant.

Free of conflict minerals.

Free from halogens.

Free from ozone-depleting substances.