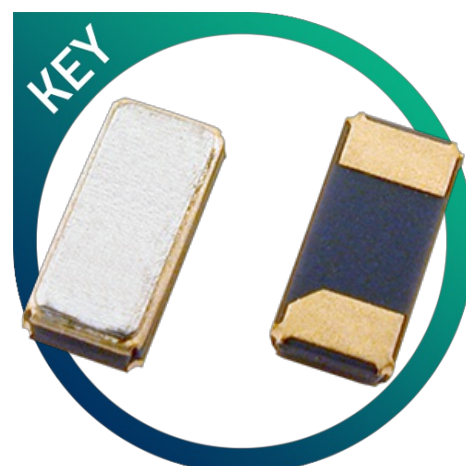


GSX-317

Miniature SM 32.768kHz Watch Crystal

- Miniature ceramic package with metal lid
- Vacuum seal for excellent long-term stability
- Low cost for volume applications
- Industry standard footprint



CONFIGURABLE OPTIONS

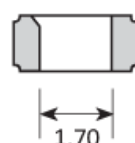
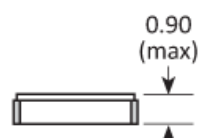
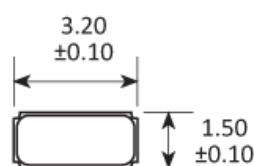
Parameter	Option Code
Calibration tolerance	
±20ppm	
Circuit condition	
Any	
6pF	
7pF	
9pF	
12.5pF	



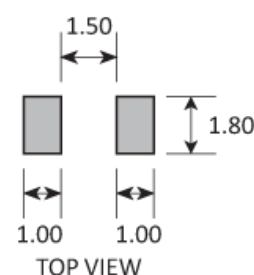
SPECIFICATIONS

Frequency	32.768kHz
Dimensions	3.2 x 1.5 x 0.9mm
Operating temperature range	-40 to +85 °C
Storage temperature range	-55 to +125 °C
Static capacitance (C ₀)	1.1pF typ
Motional capacitance (C ₁)	4.1fF typ
Equivalent series resistance	70kΩ max
Ageing	±3ppm max first year
Drive level	0.1μW typ, 0.5μW max
Turnover temperature (T ₀)	+25 °C ±5 °C
Frequency / temp coefficient	-0.04ppm/°C ² max
Soldering condition	Reflow, 260 °C, 20 sec max
Net mass	13.46mg

PACKAGE DRAWING



SOLDER PAD LAYOUT



Dimensions in mm

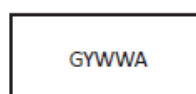
ORDERING INFORMATION

To request a quotation for the GSX-317 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.

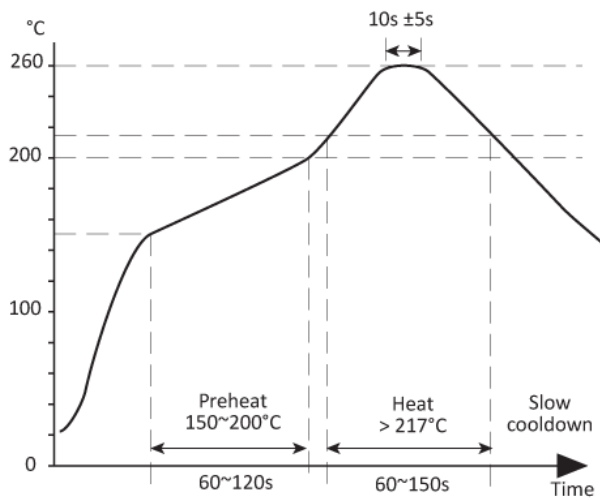
MARKING



Marking type: Laser
G = Letter G or T
YWW = Date code (128 = 2021 week 28)
A = Letter A, B, C or D

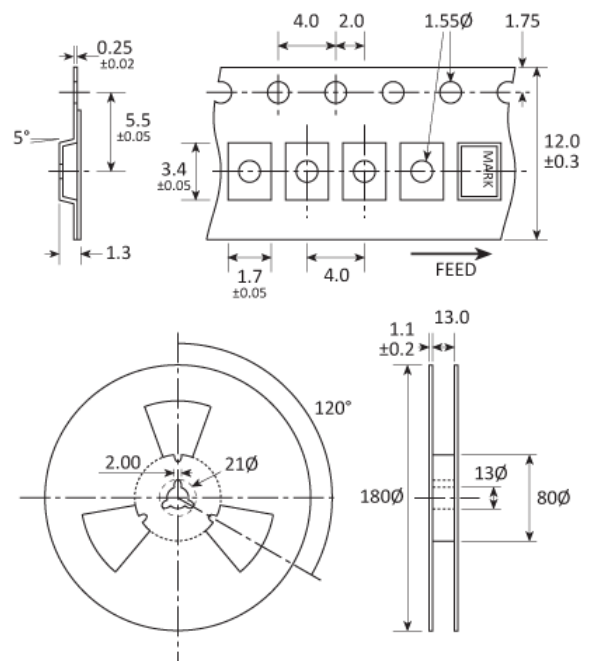


SOLDERING PROFILE



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



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](#)

