

Option Code

GRX-315

Automotive Watch Crystal (AEC-Q200)

- AEC-Q200 automotive qualified
- Miniature ceramic package with metal lid
- Vacuum seal for excellent long-term stability
- Low cost for volume applications
- Low power consumption

CONFIGURABLE OPTIONS

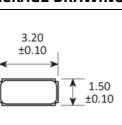
Parameter

Calibration tolerance

±20ppm

SPECIFICATIONS

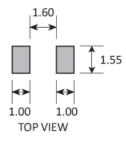
| Frequency | 32.768kHz | | | | |
|--|------------------------------|--|--|--|--|
| Dimensions | 3.2 x 1.5 x 0.9mm | | | | |
| Operating temperature | -40 to +85°C | | | | |
| range | | | | | |
| Storage temperature | -55 to +125°C | | | | |
| range | | | | | |
| Circuit condition | 12.5pF | | | | |
| | 9pF | | | | |
| Static capacitance (C ₀) | 2.0pF max | | | | |
| Motional capacitance (C1) | 3.0fF min | | | | |
| Equivalent series | 50kΩ typ, 70kΩ max @ 25°C | | | | |
| resistance | | | | | |
| Ageing | ±3ppm max first year | | | | |
| Drive level | 0.1µW typ, 0.5µW max | | | | |
| Turnover temperature (T ₀) | +25°C ±5°C | | | | |
| Frequency / temp | -0.04ppm/°C ² max | | | | |
| coefficient | | | | | |
| Soldering condition | Reflow, 260°C, 20 sec max | | | | |
| Qualification | AEC-Q200 (Automotive) | | | | |
| | | | | | |



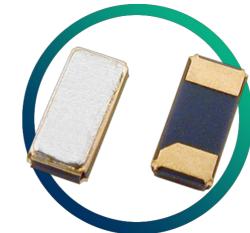




SOLDER PAD LAYOUT



Dimensions in mm



Golledge Electronics Ltd W: www.golledge.com | E: sales@golledge.com | T: +44 1460 256 100 ISO 9001:2015 & ISO 1400<u>1:2015</u> Certified

PACKAGE DRAWING



ORDERING INFORMATION

To request a quotation for the GRX-315 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

S DC NNN

Marking type: Laser DC = Date code NNN = Lot number

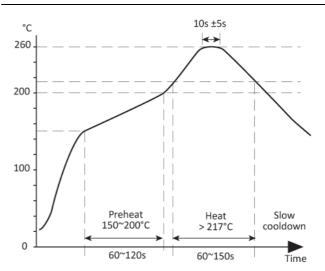
DC = Date Code in YM, eg. "GF" = Jun 2017

| | Α | В | С | D | E | F | G | н | J | K | L | м |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Y | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| М | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |

APPLICATIONS

Vehicle telematics Connected car Remote keyless entry (RKE) Audio (DAB/Bluetooth) Camera

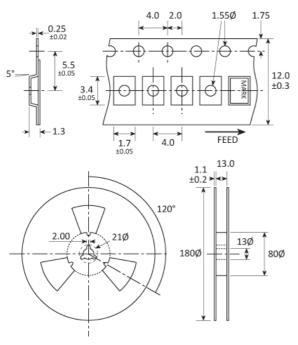
SOLDERING PROFILE



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



TAPE & REEL SPECIFICATION



Dimensions in mm

CONSTRUCTION

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

HANDLING & STORAGE

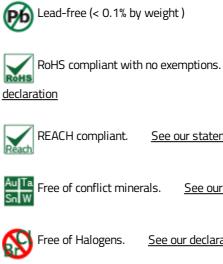


Human Body Model (HBM) 1A (250V to <500V)

| - | | | |
|----|----------|----|---|
| Δ. | | | |
| ۰. | | Δ. | 1 |
| | <u>.</u> | • | |
| - | • | | |

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

COMPLIANCE



Free of conflict minerals. See our declaration

See our statement

See our

See our



See our declaration

