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

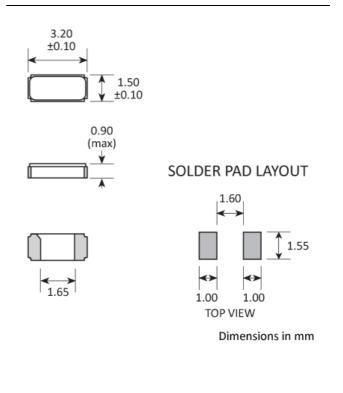


CONFIGURABLE OPTIONS						
Parameter	Option Code					
Calibration tolerance						
±20ppm						

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					
Circuit condition	12.5pF 9pF					
Static capacitance (C ₀)	2.0pF max					
Motional capacitance (C ₁)	3.0fF min					
Equivalent series	$50k\Omega$ typ, $70k\Omega$ max @ $25^{\circ}C$					
resistance						
Ageing	±3ppm max first year					
Drive level	0.1μW typ, 0.5μW max					
Turnover temperature (T ₀)	+25°C ±5°C					
Frequency / temp coefficient	-0.04ppm/°C ² max					
Soldering condition	Reflow, 260°C, 20 sec max					
Qualification	AEC-Q200 (Automotive)					

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.

APPLICATIONS

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

MARKING

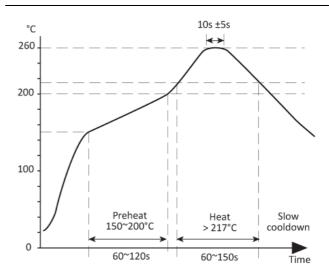
S DC NNN

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

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

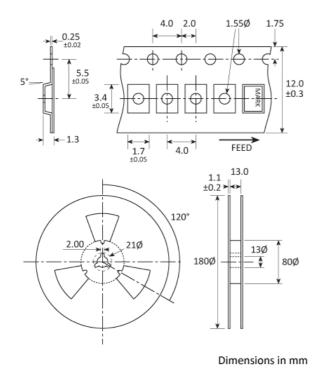
ı		Α	В	С	D	E	F	G	Н	J	K	L	M
	Υ	1	2	3	4	5	6	7	8	9	0		
	М	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

SOLDERING PROFILE



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

TAPE & REEL SPECIFICATION



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. <u>See our</u>

declaration



REACH compliant. See our statement



Free of conflict minerals. See our declaration



Free of Halogens. See our declaration



Free of Ozone-depleting substances. <u>See our</u>

declaration