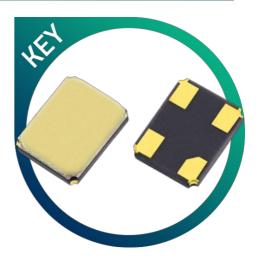




GRX-330

Automotive Crystal (AEC-Q200)

- AEC-Q200 qualified for automotive applications
- Vacuum seal for excellent long-term stability
- High reliability at low cost
- Metal lid can be grounded to minimise EMI



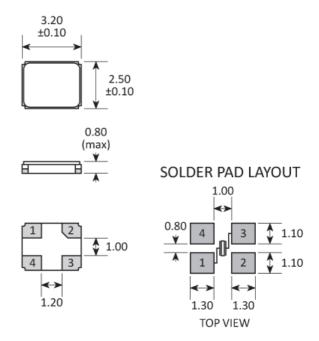
CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±10ppm	1
±15ppm	P
±20ppm	2
Temperature stability	
Any	
±15ppm	Р
±20ppm	2
±50ppm	5
±100ppm	С
Operating temperature range	
Any	
-40 to +85°C	4
-40 to +125°C	А
Circuit condition	
Any	
10pF	А
12pF	В
16pF	D
20pF	F
Oscillation mode	
Fundamental	F



SPECIFICATIONS

Frequency range	12.0 ~ 40.0MHz
Dimensions	3.2 x 2.5 x 0.8mm
Storage temperature	-40 to +125°C
range	
Static capacitance (C ₀)	5pF max
Equivalent series	100Ω max (12.0 ~ 15.99MHz)
resistance	80Ω max (16.0 ~ 18.99MHz)
	60Ω max (19.0 ~ 29.99MHz)
	40Ω max (30.0 ~ 40.0MHz)
Ageing	±3ppm max first year
Test drive level	10μW typ, 100μW max
Soldering condition	260°C, 10 sec x2 max
Qualification	AEC-Q200 (Automotive)
Net mass	16.0mg

PACKAGE DRAWING



PAD	CONNECTION					
1	Crystal					
2	Ground & lid					
3	Crystal					
4	Ground & lid					

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the GRX-330 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



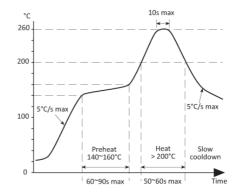
MARKING

FREQUENCY S DC Marking type: Laser

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

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

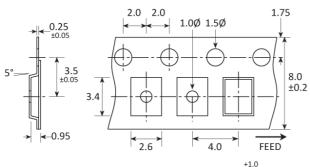
SOLDERING PROFILE

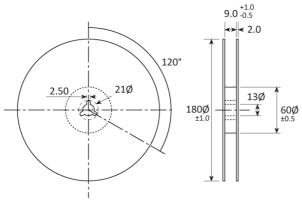


Solderability limits:

260°C max x 10sec max x 2 max

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.



pb Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions.



REACH compliant.



Au Ta Sn W Free of conflict minerals.



Free from halogens.



Free from ozone-depleting substances.