

GRX-210

Ultra-miniature 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
- Miniature size for maximum space/weight saving



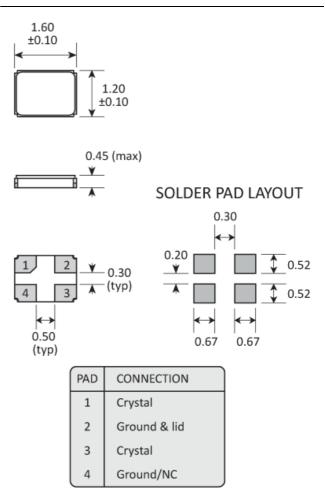
CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±10ppm	1
±15ppm	Р
±20ppm	2
Temperature stability	
Any	
±15ppm	Р
±20ppm	2
±50ppm	5
Operating temperature range	
Any	
-40 to +85°C	4
-40 to +125°C	А
Circuit condition	
Any	
8pF	M
10pF	А
12pF	В
16pF	D
Oscillation mode	
Fundamental	F



SPECIFICATIONS

Frequency range	26.0 ~ 40.0MHz
Dimensions	1.6 x 1.2 x 0.45mm
Storage temperature	-40 to +125°C
range	
Static capacitance (C ₀)	5pF max
Equivalent series	100Ω max (26.0 ~ 29.99MHz)
resistance	80Ω 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)

PACKAGE DRAWING



Dimensions in mm



ORDERING INFORMATION

To request a quotation for the GRX-210 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

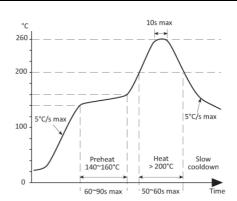
MARKING

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	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

SOLDERING PROFILE

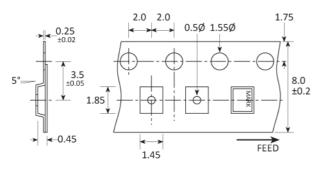


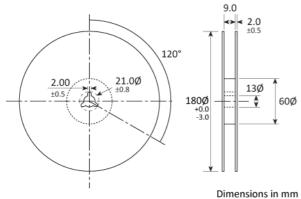
Solderability limits:

260°C max x 10sec max x 2 max



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

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions. See

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. <u>See our</u>

declaration



OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

Come and visit

Eaglewood Park, ILMINSTER, Somerset,TA19 9DQ, England

Give us a call

Tel: +44 1460 256 100 Fax: +44 1460 256 101

Email us

sales@golledge.com

Our Worldwide Distributors

Belgium & Luxembourg

Alcom Electronics NV/SA



Email Web Tel info@alcom.be www.alcom.be +32 (0)3 458.30.33

China, Hong Kong - 中国 / 香港

Meiya China



Email Web sales@meiyatech.com www.meiyatech.com +86 755 2823 1923

France

Equipments Scientifique



Email Web Tel comp@es-france.com www.es-france.com +33 1 47 95 99 89

Germany

MEV Elektronik Service GmbH



Email Web Tel info@mev-elektronik.com www.mev-elektronik.com +49 54 24 23 40-0

India

V5 Semiconductors



Email Web sales@v5semiconductors.com v5semiconductors.com +91-80-2661 0621

Israel

Phoenix Technologies Ltd



Email Web Tel sales@phnx.co.il www.phnx.co.il +972 9 764 4800

Netherlands

Alcom Electronics BV



Email Web Tel info@alcom.nl alcom.nl +31 (0)10 288.25.00

Norway & Sweden



Link Nordic



Web Tel thomas.olaussen@linknordic.com linknordic.com +47 92 23 37 54

Russia - Россия



Email Web

elena@efo.ru www.golledge.ru +7(812)327-8654

Spain & Portugal

R.C. Microelectronica, S.A.



Email Web Tel

ventas@rcmicro.es www.rcmicro.es +34 93 260 21 66

Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).

To take advantage of our highly praised service get in touch with us today.