

Features

- ▶ AEC-Q200 qualified for automotive apps
- ▶ Seam sealed for excellent long-term stability
- ▶ High reliability at low cost
- ▶ Metal lid can be grounded to minimise EMI
- ▶ Miniature for maximum space/weight saving

Example Applications

- ▶ Vehicle telematics
- ▶ Connected car
- ▶ Remote Keyless Entry (RKE)
- ▶ Audio - DAB / Bluetooth
- ▶ Camera

Specifications

Parameters	Product	Option Codes
	GRX-210	
Frequency range: 26.0 ~ 40.0MHz	■	
Calibration tolerance:		
±10ppm	□	1
±15ppm	■	P
±20ppm	□	2
Other values	□	specify
Temperature stability:		
±15ppm	□	P
±20ppm	□	2
±50ppm	■	5
Other values	□	specify
Operating temperature range:		
-40 to +85°C	■	4
-40 to +125°C	□	A
Other values	□	specify
Storage temperature range:		
-40 to +125°C	■	
Circuit condition:		
8pF	■	M
10pF	□	A
12pF	□	B
16pF	□	D
Other values	□	specify
Oscillation mode: Fundamental	■	F
Static capacitance (C ₀): 5pF max	■	
Equivalent series resistance (max):		
100Ω (26.0 ~ 29.99MHz)	■	
80Ω (30.0 ~ 40.0MHz)	■	
Ageing: ±3ppm max first year	■	
Test drive level:		
10μW typ, 100μW max	■	
Soldering condition:		
260°C, 10 sec x2 max	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

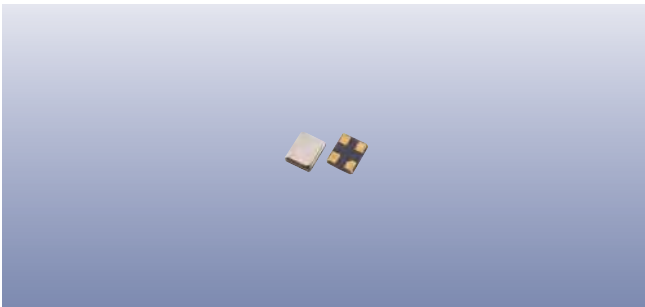
Ordering Information

Product name + option codes + frequency

eg: **GRX-210/P24MF 32.0MHz** 15/20/-40+85/8-F

GRX-210/25ABF 27.0MHz 20/50/-40+125/12-F

Option code X (eg GRX-210/X) denotes a custom specification.



Packaging & Handling

Production quantities supplied on T&R, 3k pcs per reel.
Small quantities may be supplied on tape (no reel), or in bulk.

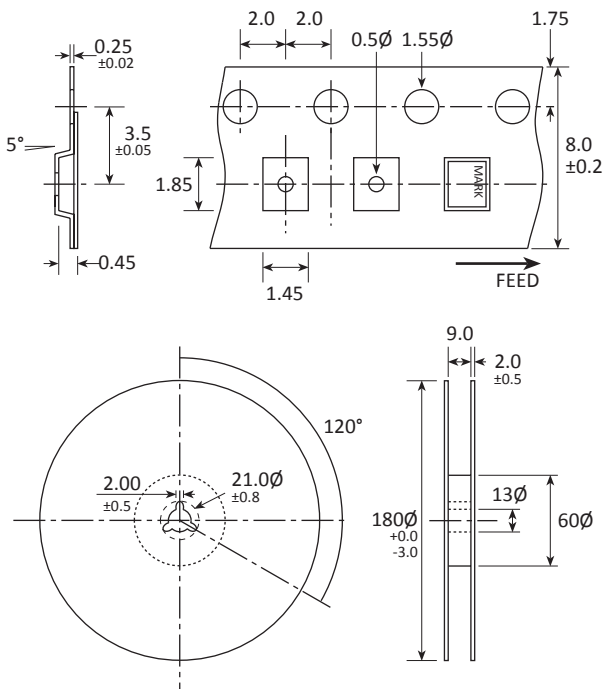
Marking

FREQUENCY
S DC

Marking type: Laser
DC = Date code in YM, eg "EJ" = Sep 2015

	A	B	C	D	E	F	G	H	J	K	L	M
Y	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Tape & Reel Specification



Not to scale. Dimensional tolerances ±0.1mm unless otherwise stated.

Construction

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

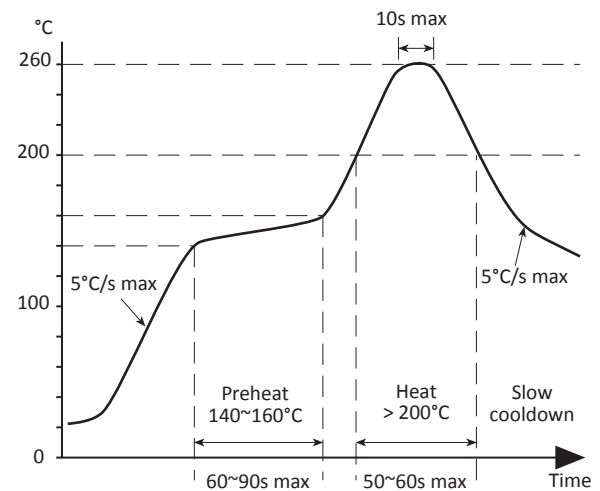
Composition



This product is lead-free, and is fully compliant with the RoHS directive 2011/65/EU



Soldering Profile



Maximum solder resistance: 260°C x 10 secs x 2.