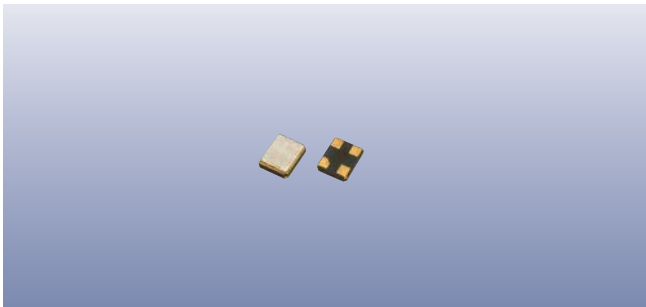




Product Description

Description:	24.0MHz GRX-320/X SM Crystal
Product family:	GRX-320
Category:	SM Quartz Crystal
Order code:	MP11813

Features

- ▶ AEC-Q200 qualified
- ▶ Metal lid can be grounded to minimise EMI
- ▶ Seam sealed for excellent long-term stability
- ▶ Ultra-miniature for maximum space saving

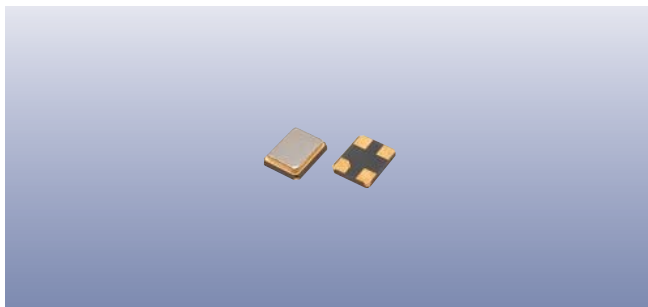
Additional Information

For further information regarding packaging, construction, material composition, soldering profile and environment, please refer to **GRX-320 Product Information sheet**

For dimensions, refer to package drawing: **D0280-D**

Electrical Specifications

Parameter	Value	Notes
Nominal frequency:	24.0MHz	
Calibration tolerance:	±10ppm	@25°C
Temperature stability:	±30ppm	
Operating temperature range:	-40 to +105°C	
Storage temperature range:	-40 to +110°C	
Circuit condition:	16pF	
Static capacitance (C_0):	3pF max	
Oscillation mode:	Fundamental	
Equivalent series resistance:	50Ω max	
Ageing:	±1ppm max	First year
Drive level:	10μW typ, 100μW max	



Packaging & Handling

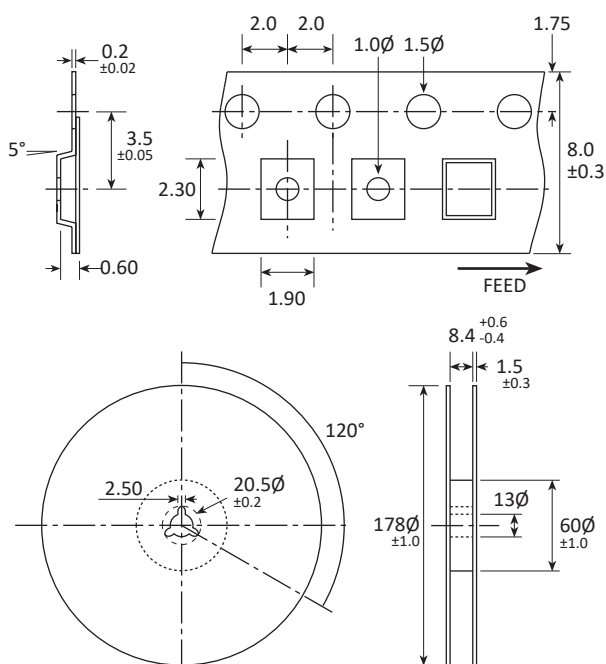
Production quantities supplied on T&R, 3k pcs per reel.
Small quantities may be supplied on tape (no reel), or in bulk.

Marking

FREQUENCY
DC

Marking type: Laser
DC = Date code

Tape & Reel Specification



Not to scale. Dimensional tolerances $\pm 0.1\text{mm}$ unless otherwise stated.

Construction

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

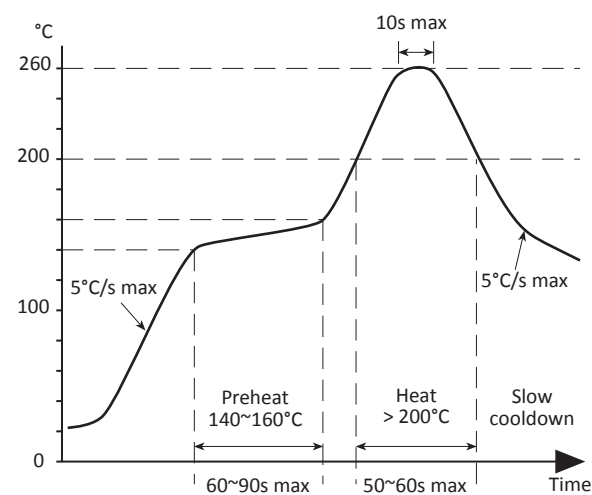
Composition



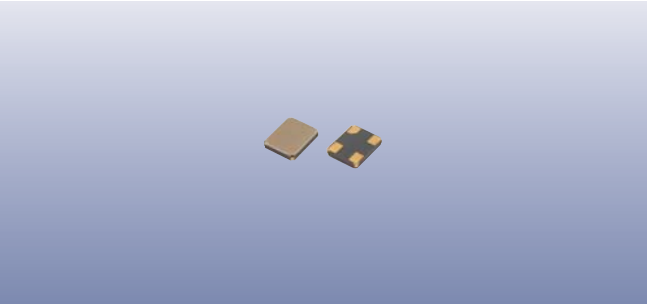
This product is lead-free, and is fully compliant with the RoHS directive 2011/65/EU



Soldering Profile



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



Product Family
GRX-320
Construction
 Ceramic body with gold-plated pads
 Metal lid, seam sealed

Dimensions (mm)

