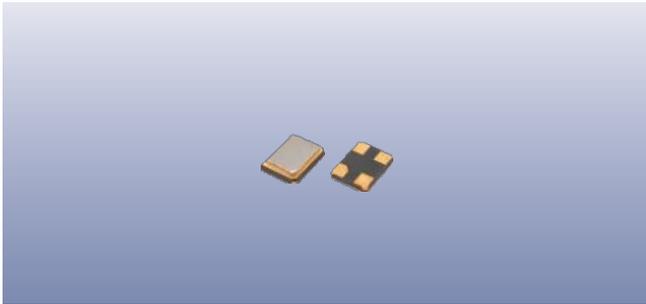




## Specification

## Part No: MP05404



### Product Description

Description:	32.0MHz GSX-333/112DF SM Crystal
Product family:	GSX-333
Category:	SM Quartz Crystal
Order code:	MP05404

### Features

- ▶ **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 **GSX-333 Product Information sheet**

For dimensions, refer to package drawing: **D0262-A**

### Electrical Specifications

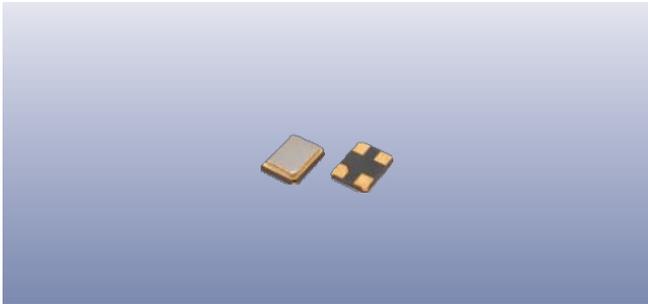
Parameter	Value	Notes
Nominal frequency:	32.0MHz	
Calibration tolerance:	±10ppm	
Temperature stability:	±10ppm	
Operating temperature range:	-20 to +70°C	
Storage temperature range:	-40 to +85°C	
Circuit condition (C <sub>J</sub> ):	16pF	
Oscillation mode:	Fundamental	
Equivalent series resistance:	50Ω max	
Frequency perturbation:	±1ppm max	
Test drive level:	10μW	
Ageing:	±1ppm max	First year





# Product Information

# GSX-333



## Construction

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

## Composition



This product is lead-free, and is fully compliant with current RoHS directives



## Packaging & Handling

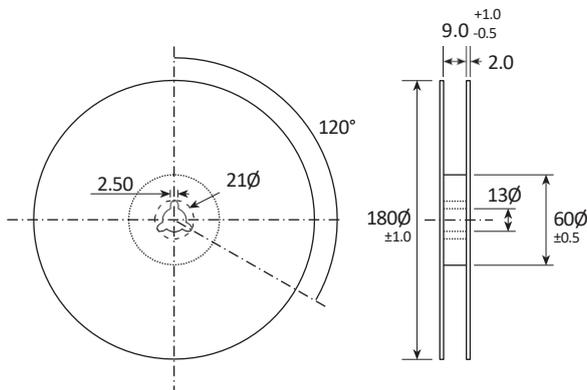
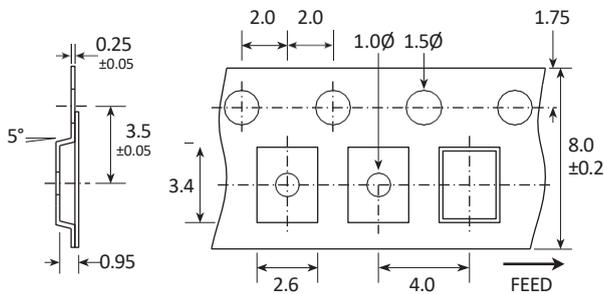
Production quantities supplied on T&R, 3k pcs per reel. Small quantities may be supplied on tape (no reel), or in bulk.

## Marking

FREQUENCY  
DC

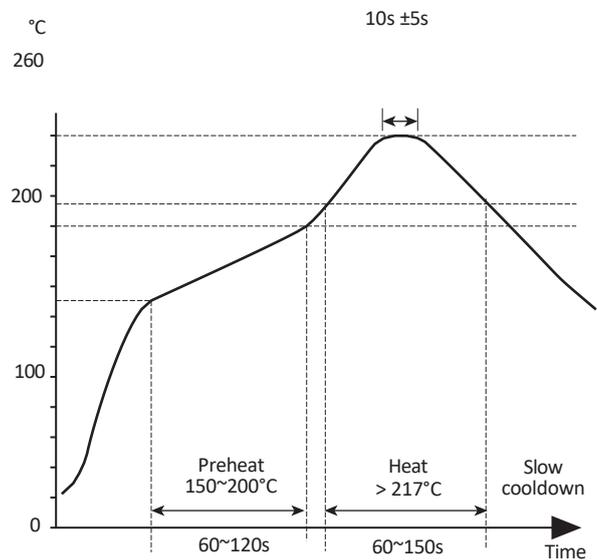
Marking type: Laser  
DC = Date code

## Tape & Reel Specification



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

## Soldering Profile



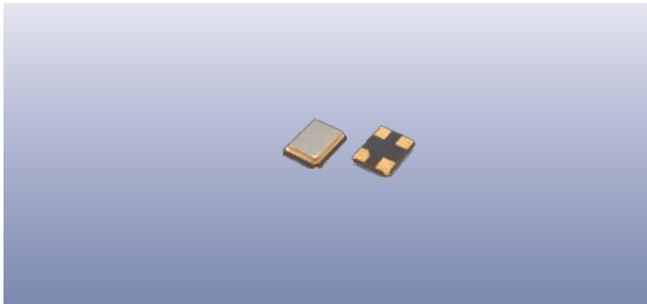
Lead free solderability limits 260°C ±5°C x 10s ±5s x 2.





# Package Drawing

# D0262-A



### Product Family

GSX-333

### Construction

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

### Dimensions (mm)

