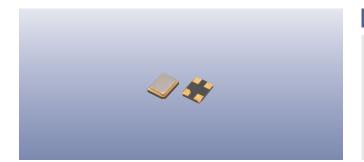
## **Specification**

## Part No: MA07817



#### Features

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

#### **Product Description**

Description:	12.0MHz GSX-333/111DF SM Crystal
Product family:	GSX-333
Category:	SM Quartz Crystal
Order code:	MA07817

#### Additional Information

For further information regarding packaging, construction, material composition, soldering profile and environment, please refer to **GSX-333 Product Information sheet** 

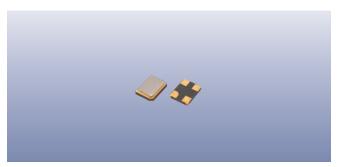
For dimensions, refer to package drawing: D0262-A

### **Electrical Specifications**

Parameter	Value	Notes
Nominal frequency:	12.0MHz	
Calibration tolerance:	±10ppm	
Temperature stability:	±10ppm	
Operating temperature range:	-10 to +60°C	
Storage temperature range:	-40 to +85°C	
Circuit condition (C <sub>L</sub> ):	16pF	
Oscillation mode:	Fundamental	
Equivalent series resistance:	100Ω max	
Frequency perturbation:	±1ppm max	
Test drive level:	10μW	
Ageing:	±1ppm max	First year

Golledge

## **Product Information**



#### **Packaging & Handling**

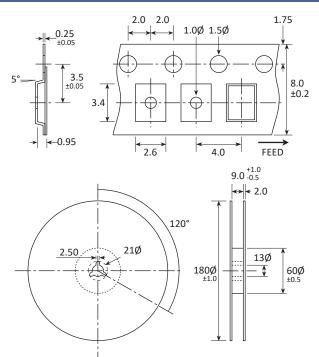
Production quantities supplied on T&R, 3k pcs per reel. Small quantities may be supplied on tape (no reel), or in bulk.

#### Marking

FREQUENCY DC

Marking type: Laser DC = Date code

#### **Tape & Reel Specification**



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

#### Construction

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

#### Composition

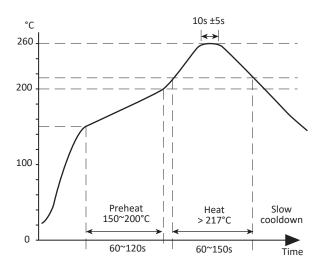


This product is lead-free, and is fully compliant with current RoHS directives

# LeadFre

**GSX-333** 

#### **Soldering Profile**

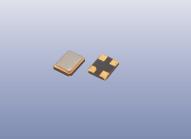


Lead free solderability limits 260°C ±5°C x 10s ±5s x 2.

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## **Package Drawing**

D0262-A



**Product Family** 

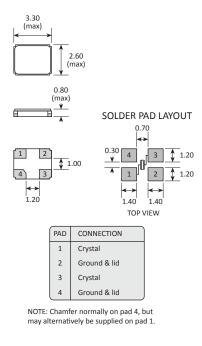
GSX-333

Construction

Ceramic body with gold-plated pads

Metal lid, seam sealed

**Dimensions (mm)** 



**Golledge**