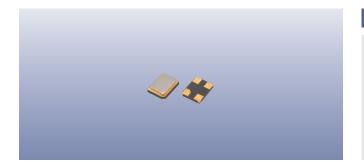
Specification

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**

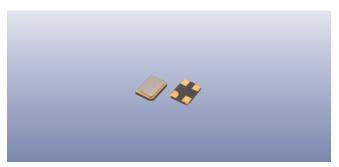
For dimensions, refer to package drawing: D0262-A

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 _L):	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

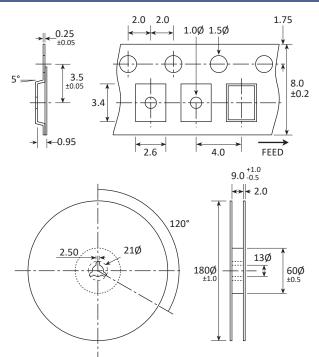
Production quantities supplied on T&R, 3k pcs per reel. Small quantities may be supplied on tape (no reel), or in bulk.

Marking

FREQUENCY DC

Marking type: Laser DC = Date code

Tape & Reel Specification



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

Construction

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

Composition

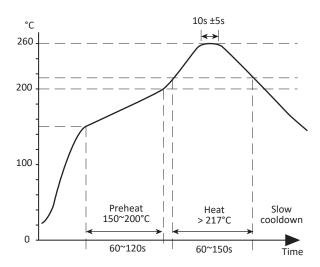


This product is lead-free, and is fully compliant with current RoHS directives

LeadFre

GSX-333

Soldering Profile

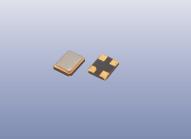


Lead free solderability limits 260°C ±5°C x 10s ±5s x 2.

Golledge

Package Drawing

D0262-A



Product Family

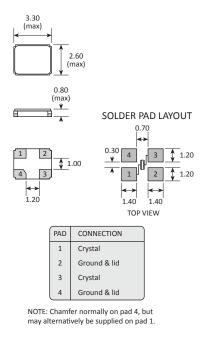
GSX-333

Construction

Ceramic body with gold-plated pads

Metal lid, seam sealed

Dimensions (mm)



Golledge