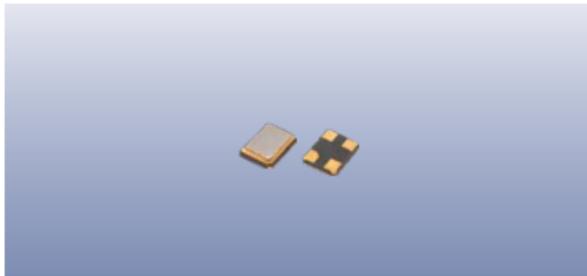




Specification

Part No: MA07812



Product Description

Description:	32.0MHz GSX-333/113BFSM Crystal
Product family:	GSX-333
Category:	SM Quartz Crystal
Order code:	MA07812

Features

- 1 Metal lid can be grounded to minimise EMI
- 1 Seam sealed for excellent long-term stability
- 1 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

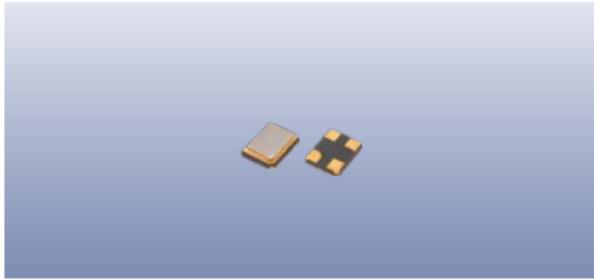
Parameter	Value	Notes
Nominal frequency:	32.0MHz	
Calibration tolerance:	±10ppm max	At 25°C ±3°C
Temperature stability:	±10ppm max	Referred to frequency at 25°C
Operating temperature range:	-30 to +85°C	
Storage temperature range:	-40 to +85°C	
Circuit condition:	12pF	
Static capacitance (C ₂):	3.0pF max	
Oscillation mode:	Fundamental	
Equivalent series resistance:	50 <u>max</u>	
Test drive level:	10µW	





Product Information

GSX-333



Construction

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

Composition



This product is lead-free, and is fully compliant with the RoHS directive 2002/95/EC



Packaging & Handling

Production quantities supplied on T & R, 1k or 3k pcs per reel. Small quantities may be supplied on tape (no reel), or in bulk.

Marking

FREQUENCY	T	DC
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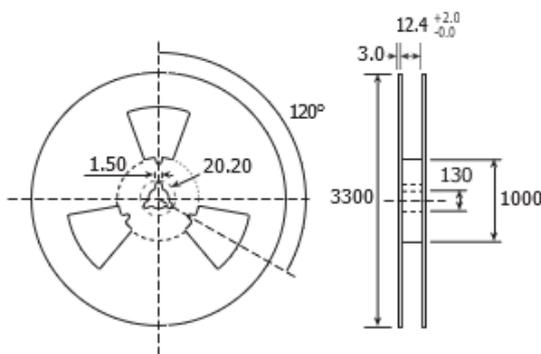
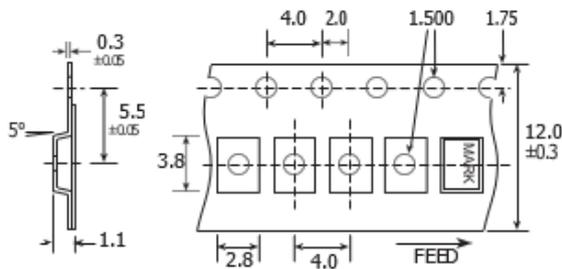
Marking type: Laser
DC = Date code in YW, as shown below
Example: "zd" = 2004 week 30

Year	2001	2002	2003	2004
	2005	2006	2007	2008
Code	Z	z	Z	z

Week codes:

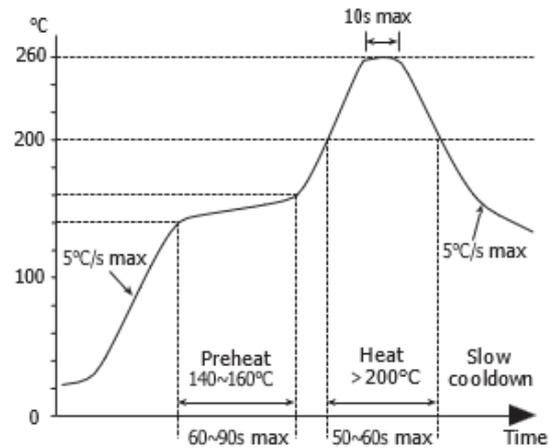
A ~ Z: weeks 1 to 26
a ~ z: weeks 27 to 52

Tape & Reel Specification



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

Soldering Profile



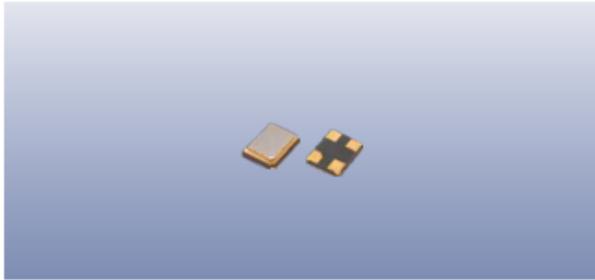
Maximum solder resistance: 260°C x 10 secs x 2.





Package Drawing

D0262-A



Product Family

GSX-333

Construction

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

Dimensions (mm)

Scale 3:1

