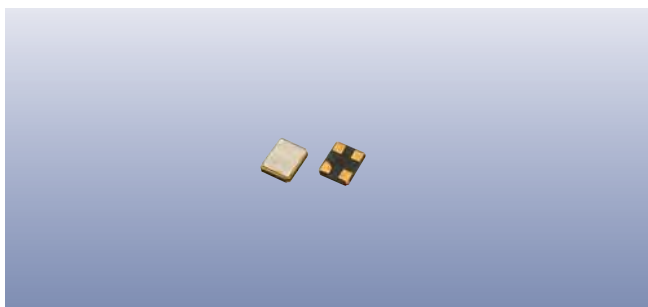




Product Description

Description:	16.0MHz GSX-323/112NF SM Crystal
Product family:	GSX-323
Category:	SM Quartz Crystal
Order code:	MA07246

Features

- **Qualified for use with CSR Bluetooth chipsets**
- **Metal lid can be grounded to minimise EMI**
- **Seam sealed for excellent long-term stability**
- **Ultra-miniature for maximum space saving**

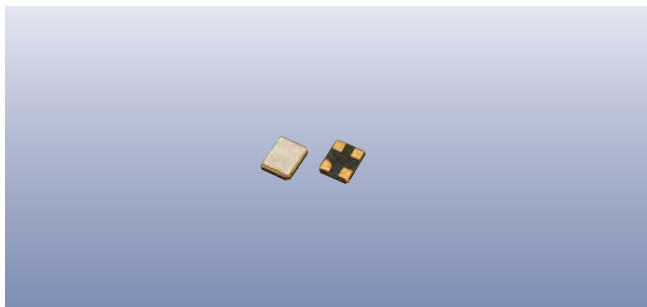
Additional Information

For further information regarding packaging, construction, material composition, soldering profile and environment, please refer to **GSX-323 Product Information sheet**

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

Electrical Specifications

Parameter	Value	Notes
Nominal frequency:	16.0MHz	
Calibration tolerance:	±10ppm max	At 25°C ±3°C
Temperature stability:	±10ppm max	Referred to frequency at 25°C
Operating temperature range:	-20 to +70°C	
Storage temperature range:	-40 to +85°C	
Circuit condition:	9pF	
Static capacitance (C_0):	3.0pF max	
Oscillation mode:	Fundamental	
Equivalent series resistance:	100Ω max	
Test drive level:	10μW	



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

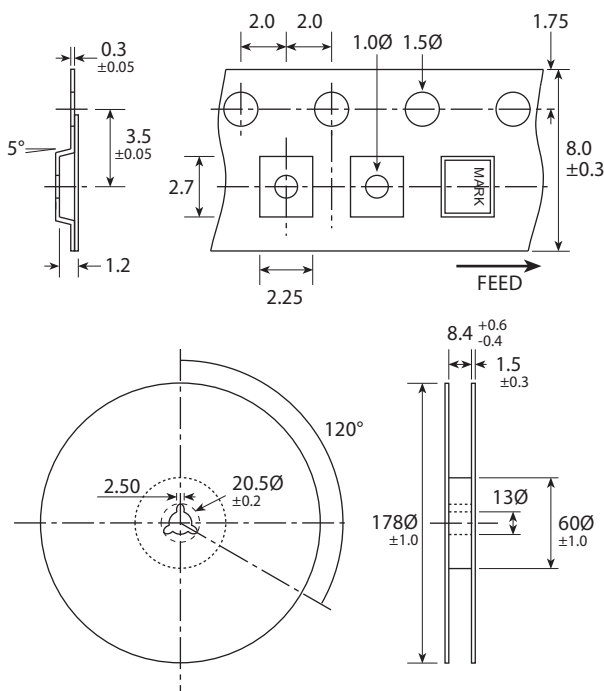
FREQUENCY
T DC

Marking type: Laser
DC = Date code in YW, as shown below
Example: "xd" = 2006 week 30

Year	2001	2002	2003	2004
	2005	2006	2007	2008
Code	X	x	<u>X</u>	<u>x</u>

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

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

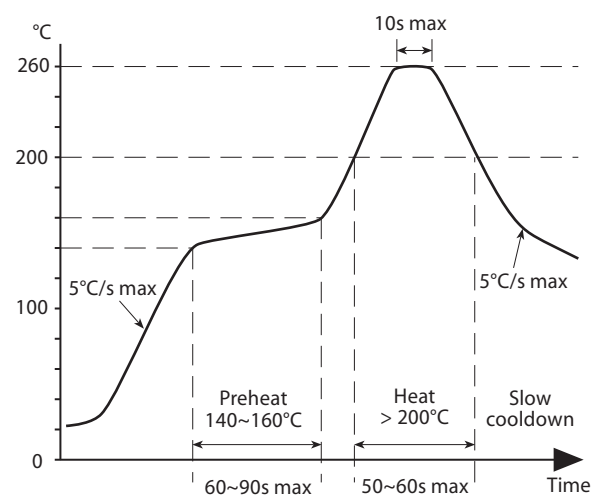
Composition



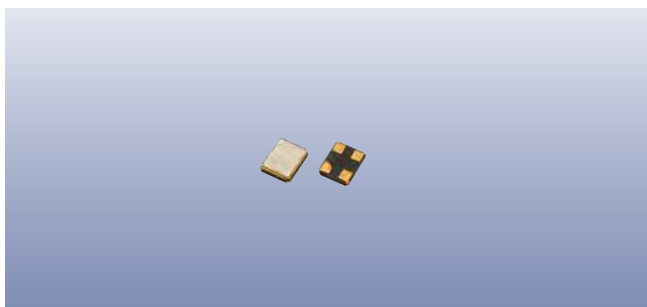
This product is lead-free, and is fully compliant with the RoHS directive 2002/95/EC



Soldering Profile



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



Product Family

GSX-323

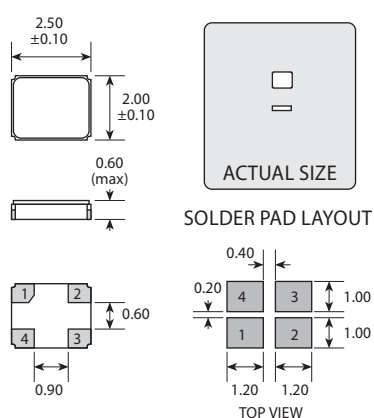
Construction

▮▮▮▮ *Ceramic body with gold-plated pads*

▮▮▮▮ *Metal lid, seam sealed*

Dimensions (mm)

Scale 4:1



PAD	CONNECTION
1	Crystal
2	Ground & lid
3	Crystal
4	Ground & lid