

Product Description

Description: 104.0MHz GSX-331/X SM Crystal

Product family: GSX-331

Category: SM Quartz Crystal

Order code: MP05322

Features

Metal lid can be grounded to minimise EMI

Seam seal 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-331 Product Information sheet**

For dimensions, refer to package drawing: D0240-A

Electrical Specifications

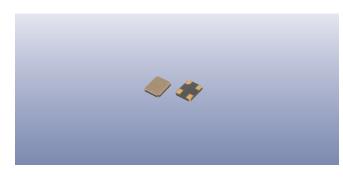
Parameter	Value	Notes			
Nominal frequency:	104.0MHz				
Calibration tolerance:	±10ppm max	At 25°C ±3°C			
Temperature stability:	±80ppm max	Referred to frequency at 25°C			
Operating temperature range:	0 to +125°C				
Storage temperature range:	-40 to +125°C				
Circuit condition:	12pF				
Static capacitance (C ₀):	1.35pF ±20%				
Motional capacitance (C ₁):	0.34fF ±15%				
Ageing:	±2ppm max	First year			
Oscillation mode:	3rd overtone				
Equivalent series resistance:	100Ω max				
Drive level:	100μW max				

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Packaging & Handling

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

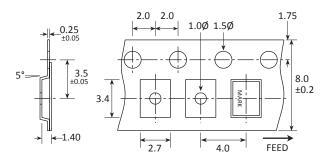
Marking

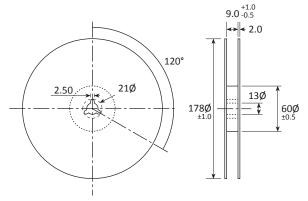
FREQUENCY S DC Marking type: Laser

DC = Date code in YM, as shown below Example: "GJ" = Sep 2017

	Α	В	С	D	Е	F	G	Н	J	К	L	М
Υ	1	2	3	4	5	6	7	8	9	0		
М	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Tape & Reel Specification





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

Construction

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

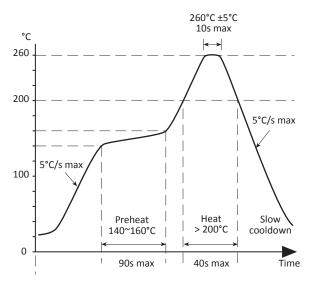
Composition



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



Soldering Profile



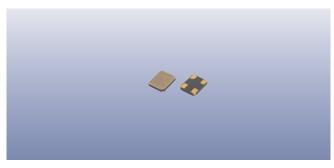
Maximum solder resistance: 260°C x 10 secs x 2.

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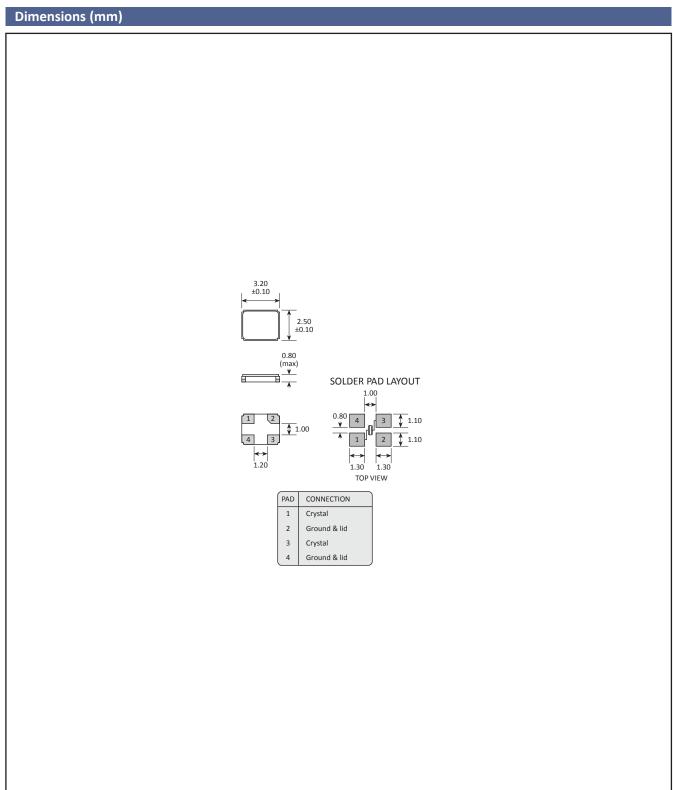


Product Family

GSX-331, GRX-330

Construction

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



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