

### **Product Description**

Description: 24.0MHz GSX-333/1P2NF SM Crystal

Product family: GSX-333

Category: SM Quartz Crystal

Order code: MP03660

### **Features**

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-333 Product Information sheet** 

For dimensions, refer to package drawing: D0262-A

# **Electrical Specifications**

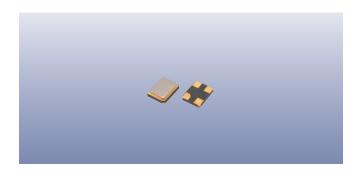
Parameter	Value	Notes
Nominal frequency:	24.0MHz	
Calibration tolerance:	±10ppm max	At 25°C ±3°C
Temperature stability:	±15ppm max over -20 to +75°C	Referred to frequency at 25°C
	±30ppm max over -40+85°C	
Operating temperature range:	-40 to +85°C	
Storage temperature range:	-40 to +85°C	
Circuit condition:	9pF	
Static capacitance (C <sub>0</sub> ):	5.0pF max	
Oscillation mode:	Fundamental	
Equivalent series resistance:	40Ω max	
Aging:	±1ppm/year max	
Test drive level:	10μW typ, 200μW 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 T zDC Marking type: Laser

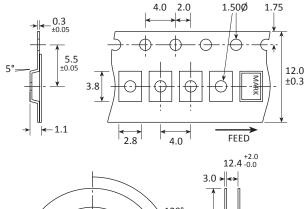
DC = Date code in YW, as shown below Example: "zd" = 2012 week 30

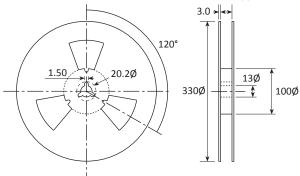
Year	2009	2010	2011	2012
	2013	2014	2015	2016
Code	Z	Z	<u>Z</u>	<u>z</u>

Week codes:

A  $\sim$  Z: weeks 1 to 26 a  $\sim$  z: weeks 27 to 52

# **Tape & Reel Specification**





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

#### Construction

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

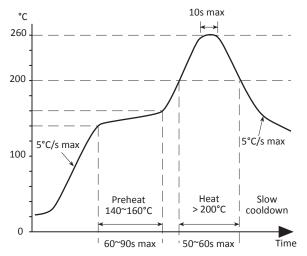
#### Composition



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



### **Soldering Profile**



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

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