

Product Description

Description:	76.80MHz GSX-113/1P4AF SM Crystal
Product family:	GSX-113
Category:	SM Quartz Crystal
Order code:	MP11648

Features

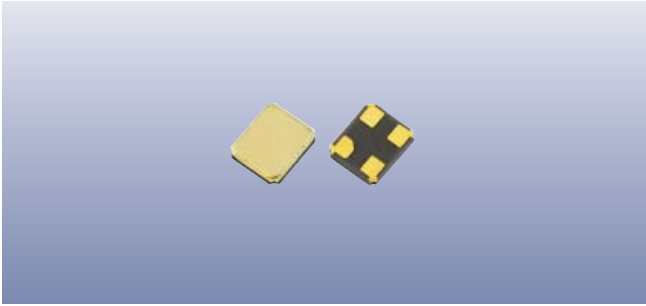
- ▶ Fundamental mode up to 80.0MHz
- ▶ Ultra-miniature for maximum space saving
- ▶ Compatible with latest ASIC designs

Additional Information

For dimensions, refer to package drawing: **D0382-A**

Electrical Specifications

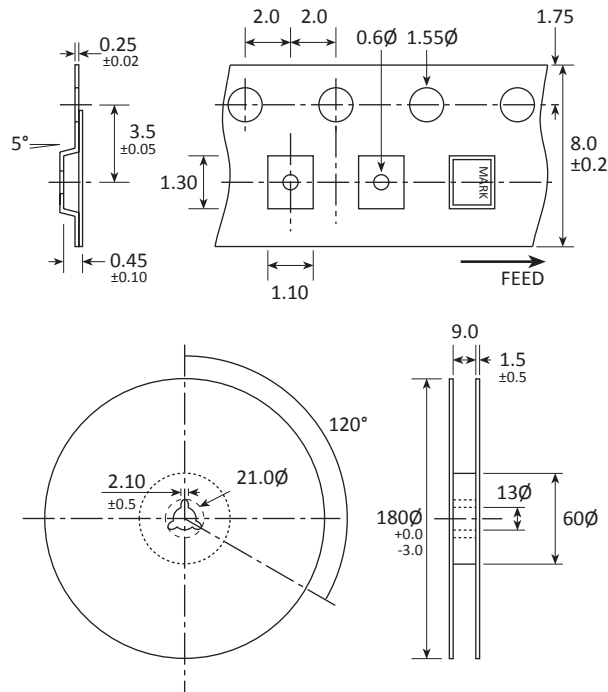
Parameter	Value	Notes
Nominal frequency:	76.80MHz	
Temperature stability:	±15ppm	Referred to the value at 25°C
Calibration tolerance:	±10ppm	@25°C ±3°C
Operating temperature range:	-40 to +85°C	
Storage temperature range:	-40 to +85°C	
Circuit condition:	10pF	
Oscillation mode:	Fundamental	
Equivalent series resistance:	30Ω max	
Drive level:	50μW typ, 200μW max	
Static capacitance:	3pF max	
Ageing:	±2ppm	Per year

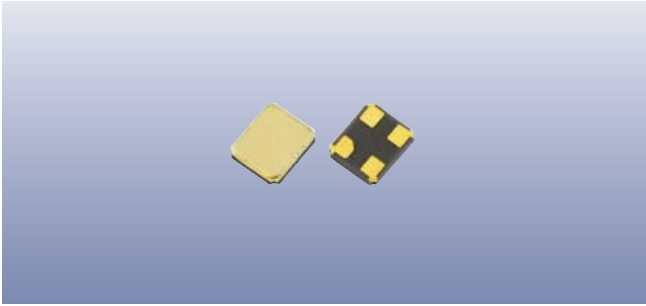


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Tape & Reel Specification

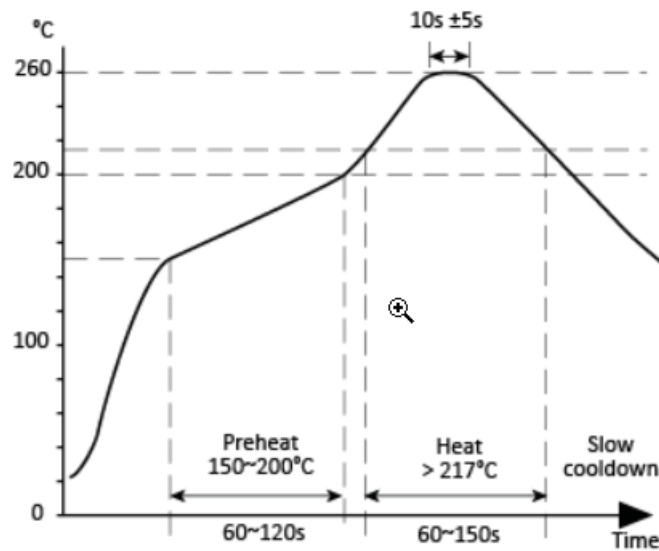




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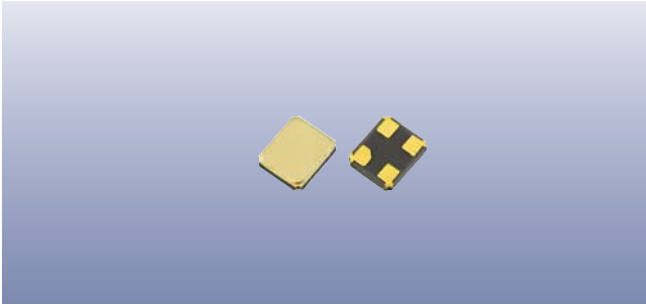
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Soldering Profile



Lead free solderability limits:

260°C ±5°C x 10s ±5s x 2.



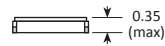
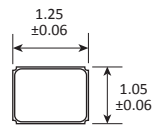
Product Family

GSX-113

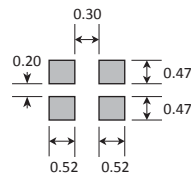
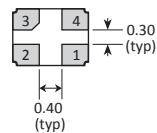
Construction

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

Dimensions (mm)



SOLDER PAD LAYOUT



PAD	CONNECTION
1	Crystal
2	Not connected
3	Crystal
4	Ground & lid