

Product Description

Description:	32.768kHz GSX-317 SM Crystal
Product family:	GSX-317
Category:	SM Crystal
Order code:	MP10739

Features

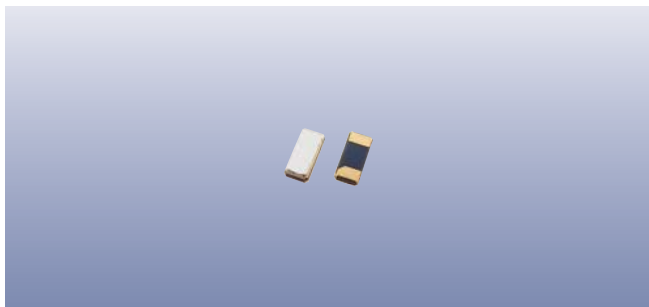
- ▶ Miniature ceramic package with metal lid
- ▶ Vacuum seal for excellent long-term stability
- ▶ Low cost for volume applications
- ▶ Low power consumption

Additional Information

For dimensions, refer to package drawing: **D0328-D**

Electrical Specifications

Parameter	Value	Notes
Nominal frequency:	32.768kHz	
Calibration tolerance:	±20ppm max	At 25°C ±3°C
Circuit condition:	9pF	
Operating temperature range:	-40 to +85°C	
Storage temperature range:	-55 to +125°C	
Turnover temperature (T ₀):	+25°C ±5°C	
Temperature coefficient:	-0.02ppm / °C ² min, -0.04ppm / °C ² max	
Static capacitance (C ₀):	1.1pF typ	
Motional capacitance (C ₁):	4.1fF typ	
Oscillation mode:	Fundamental	
Equivalent series resistance:	70kΩ max	
Ageing:	±3ppm max	Per year
Drive level:	0.1μW typ, 0.5μW max	



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



LeadFree

Packaging & Handling

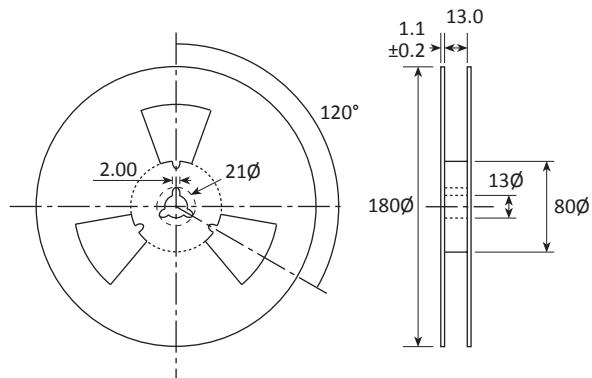
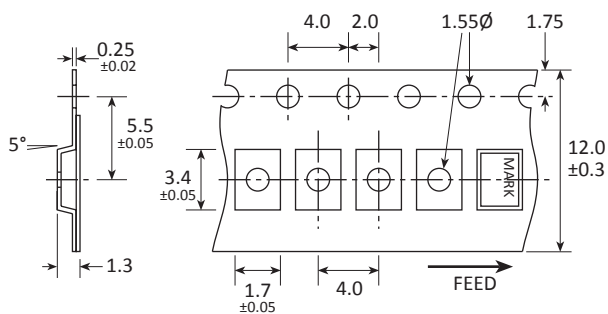
Production quantities supplied on T&R, 3k pcs per reel.
Small quantities may be supplied on tape (no reel), or in bulk.

Marking

GYWWA

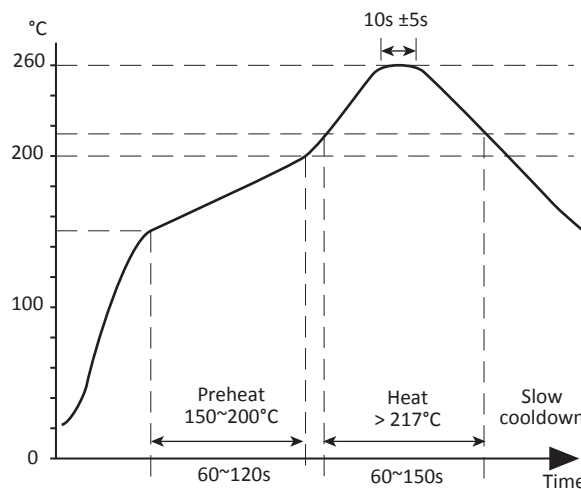
Marking type: Laser
G = Letter G or T
YWW = Date code (128 = 2021 week 28)
A = Letter A, B, C or D

Tape & Reel Specification

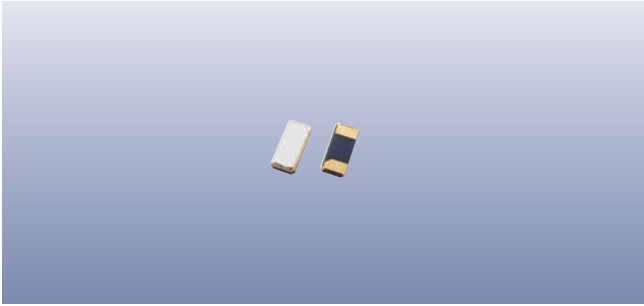


Not to scale. Dimensional tolerances ±0.1mm unless otherwise stated.

Soldering Profile



Lead free solder limits: 260°C±5°C x 10s±5s x 2.



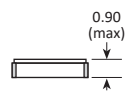
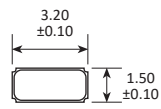
Product Family

GSX-317

Construction

- ▮ Ceramic body with gold-plated pads
- ▮ Metal lid, vacuum sealed for high stability

Dimensions (mm)



SOLDER PAD LAYOUT

