

**Option Code** 

1

2

3



# GSX-333

## 3.2 x 2.5mm High Frequency SM Crystal with Tight Specifications

- Metal lid can be grounded to minimise EMI
- Seam sealed for excellent long-term stability
- Ultra-miniature for maximum space saving
- Ideal for Bluetooth / Wireless applications

**CONFIGURABLE OPTIONS** 

Parameter



### Frequency Calibration tolerance Any ±10ppm ±20ppm ±30ppm Temperature stability Any ±10ppm

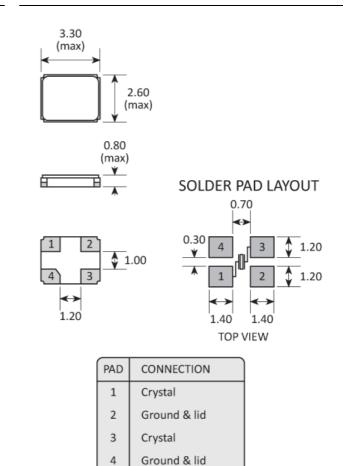
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±10ppm	1
±20ppm	2
±30ppm	3
Operating temperature range	
Any	
-10 to +60°C	1
-20 to +70°C	2
-30 to +80°C	3
-40 to +85°C	4
Circuit condition	
Any	
8pF	Μ
9pF	Ν
10pF	А
12pF	В
Oscillation mode	
Fundamental	F
3rd overtone	3



#### SPECIFICATIONS

Frequency range	8.0 ~ 66.0MHz 54.0 ~ 125MHz (3rd overtone)	
Dimensions	3.2 x 2.5 x 0.8mm	
Storage	-40 to +85°C	
temperature range		
Equivalent series	500Ω max (8.0 ~ 9.99MHz)	
resistance	150Ω max (10.0 ~ 11.99MHz)	
	100Ω max (12.0 ~ 15.99MHz)	
	60Ω max (16.0 ~ 19.99MHz)	
	50Ω max (20.0 ~ 66.0MHz, fund)	
	100Ω max (54.0 ~ 99.99MHz, 3rd OT)	
	80Ω max (100 ~ 125MHz, 3rd OT)	
Frequency	±1ppm max	
perturbation		
Ageing	±1ppm max first year	
Test drive level	10µW	
Soldering	260°C, 10 sec x2 max	
condition		
Net mass	19.3mg	

#### **PACKAGE DRAWING**



NOTE: Chamfer normally on pad 4, but may alternatively be supplied on pad 1.

Dimentions in mm



MARKING

FREQUENCY

T DC

#### **ORDERING INFORMATION**

To request a quotation for the GSX-333 please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

Marking type: Laser

DC = Date code

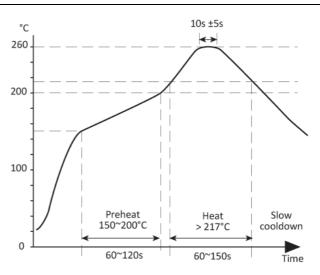
#### **APPLICATIONS**

Our crystals and oscillators are regularly supplied for use with industry-leading ICs, from world-leading manufacturers including:

Analogue Devices Atmel (Microchip Technology Inc.) Broadcom Dialog Semiconductor PLC Intel Nordic Semiconductor NXP Semiconductors Qualcomm (and CSR) Silicon Labs STMicroelectronics Texas Instruments (TI) Xilinx and more...

If you'd like more information about chipset compatibility please <u>get in touch with our team here</u>.

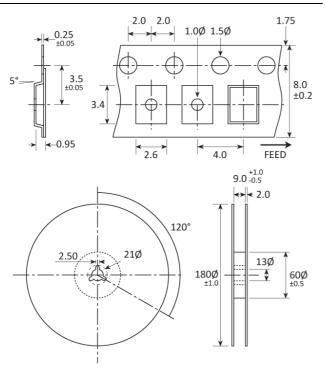
#### SOLDERING PROFILE



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



#### **TAPE & REEL SPECIFICATION**



**HANDLING & STORAGE** 



Human Body Model (HBM) 1A (250V to <500V)

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Moisture Sensitivity Level (MSL): 1 (or not applicable)

#### Dimensions in mm

#### CONSTRUCTION

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

#### COMPLIANCE

Please refer to our **DOCUMENTS** section for more information.



Lead-free (< 0.1% by weight )



RoHS compliant with no exemptions.

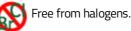


REACH compliant.





Free of conflict minerals.





Free from ozone-depleting substances.