

# GSX-338

## High Frequency Fundamental 3.2 x 2.5mm SM Crystal

- Fundamental mode up to 315MHz
- Plasma etched inverted mesa process
- Wide pulling range (fundamental mode)
- Small & medium volumes also available
- Custom frequencies available on short leadtimes



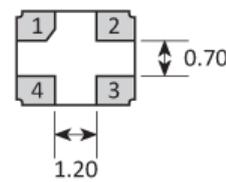
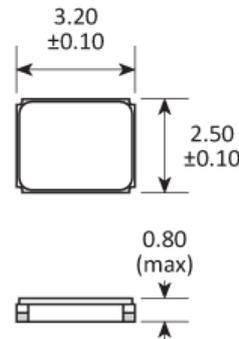
### CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±10ppm	1
±20ppm	2
±30ppm	3
Temperature stability	
Any	
±10ppm	1
±15ppm	P
±20ppm	2
±30ppm	3
Operating temperature range	
Any	
-20 to +70 °C	2
-40 to +85 °C	4
Circuit condition	
Any	
8pF	M
9pF	N
12pF	B
16pF	D
20pF	F
Series resonant	S
Oscillation mode	
Fundamental (10.0 ~ 315MHz)	F

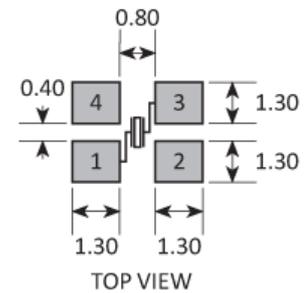
## SPECIFICATIONS

Frequency range	10.0 ~ 315MHz
Dimensions	3.2 x 2.5 x 0.8mm
Storage temperature range	-40 to +90°C
Static capacitance (C <sub>0</sub> )	7pF max
Equivalent series resistance	250Ω max (10.0 ~ 12.9MHz)
	150Ω max (13.0 ~ 15.9MHz)
	90Ω max (16.0 ~ 29.9MHz) 60Ω max (30.0 ~ 315MHz, fund)
Ageing	±3ppm max first year
Test drive level	10μW typ, 100μW max
Soldering condition	260°C, 10sec x2 max

## PACKAGE DRAWING



### SOLDER PAD LAYOUT



PAD	CONNECTION
1	Crystal
2	Ground & lid
3	Crystal
4	Ground & lid

Dimensions in mm

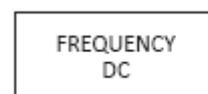
## ORDERING INFORMATION

To request a quotation for the GSX-338 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](mailto: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

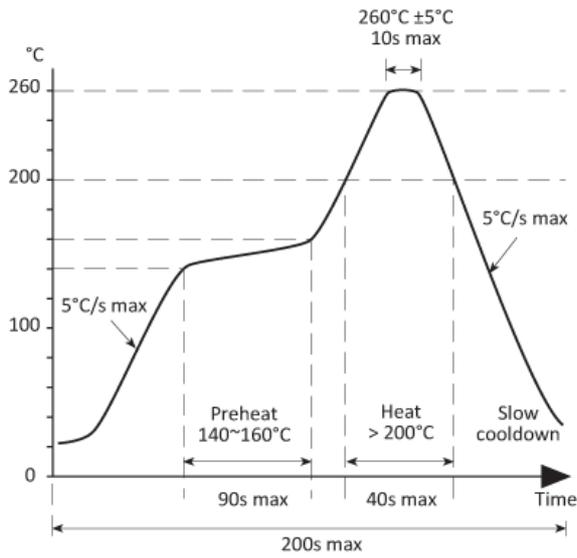


Marking type: Laser

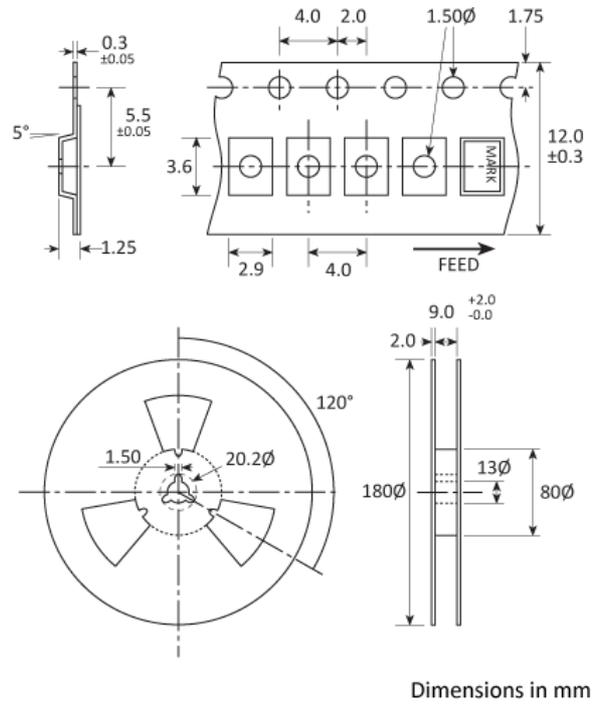
DC = Date Code in YM, eg. "GF" = Jun 2017

	A	B	C	D	E	F	G	H	J	K	L	M
Y	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

**SOLDERING PROFILE**



**TAPE & REEL SPECIFICATION**



**HANDLING & STORAGE**



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



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

**CONSTRUCTION**

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

## COMPLIANCE

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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 halogens.



Free from ozone-depleting substances.