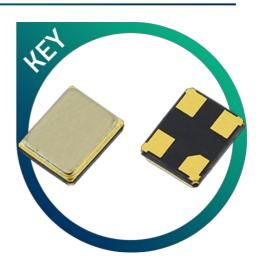


GSX-228

High Frequency Fundamental Mode Ultra-Miniature 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



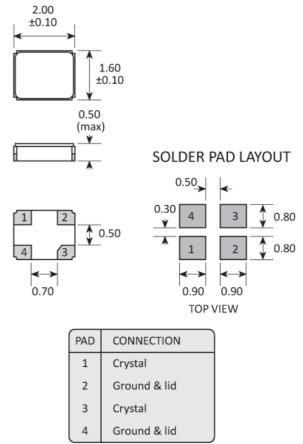
CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±10ppm	1
±20ppm	2
±30ppm	3
Temperature stability	
Any	
±10ppm	1
±15ppm	Р
±20ppm	2
±30ppm	3
±50ppm	5
Operating temperature range	
Any	
-20 to +70°C	2
-40 to +85°C	4
Circuit condition	
Any	
8pF	M
9pF	N
12pF	В
16pF	D
18pF	Е
20pF	F
Series resonant	S
Oscillation mode	
Fundamental	F



SPECIFICATIONS

Frequency range	20.0 ~ 315MHz
Dimensions	2.0 x 1.6 x 0.5mm
Storage	-40 to +90°C
temperature range	
Equivalent series	100Ω (20.0 ~ 35.9MHz)
resistance (max)	80Ω (36.0 ~ 69.9MHz)
	60Ω (70.0 ~ 315MHz, fund)
Ageing	±3ppm max first year
Test drive level	10μW typ, 100μW max (<70.0MHz)
	2.0µW max (70.0MHz+)
Soldering condition	260°C, 10sec x2 max

PACKAGE DRAWING



Dimensions in mm

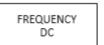
ORDERING INFORMATION

To request a quotation for the GSX-228 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



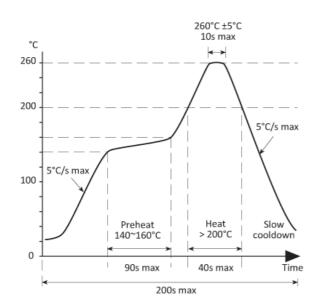
Marking type: Laser

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

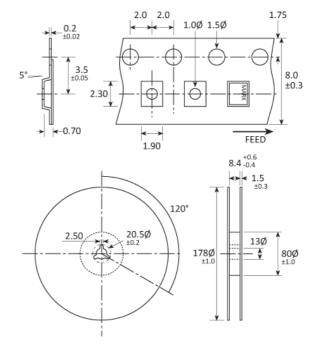
	Α	В	С	D	Е	F	G	Н	J	K	L	М
Υ	1	2	3	4	5	6	7	8	9	0		
М	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec



SOLDERING PROFILE



TAPE & REEL SPECIFICATION



Dimensions in mm

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

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



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions.



REACH compliant.



Au Ta Sn W Free of conflict minerals.



Free from halogens.



Free from ozone-depleting substances.