

GSX-113

Ultra miniature low profile SM

Crystal

- Fundamental mode up to 80.0MHz
- Ultra-miniature for maximum space saving
- Low profile and light weight for smart cards
- Seam sealed for excellent long-term stability
- Compatible with latest ASIC designs



CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±5ppm	L
±10ppm	1
±20ppm	2
±30ppm	3
Temperature stability	
Any	
±10ppm	1
±15ppm	Р
±20ppm	2
±30ppm	3
Operating temperature range	
Any	
-20 to +70°C	2
-30 to +80°C	3
-40 to +85°C	4
Circuit condition	
Any	
5pF	R
6pF	Т
8pF	M
10pF	А
12pF	В
Oscillation mode	
Fundamental	F

^{* ±5}ppm calibration tolerance may not be available at certain frequencies. Check with our sales office before ordering



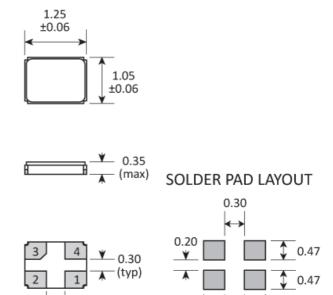
SPECIFICATIONS

Frequency range	32.0 ~ 80.0MHz
Dimensions	1.25 x 1.05 x 0.35mm
Storage temperature range	-40 to +125°C
Equivalent series resistance	120Ω max @ 32.0MHz
	100Ω max @ $40.0MHz$
	60Ω max @ 48.0MHz
	40Ω max @ 76.8MHz
Ageing	±1ppm max first year
Test drive level	10μW
Soldering condition	260°C, 10 sec x2 max
Net mass	1.69mg

PACKAGE DRAWING

0.40

(typ)



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

Dimensions in mm

0.52

0.52



ORDERING INFORMATION

To request a quotation for the GSX-113 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.

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

Oualcomm (and CSR)

Silicon Labs

STMicroelectronics

Texas Instruments (TI)

Xilinx

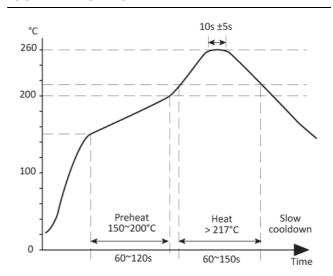
and more...

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

MARKING

FREQUENCY T DC Marking type: Laser DC = Date code

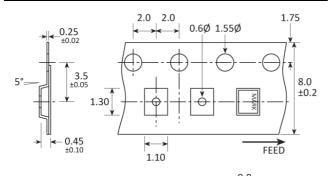
SOLDERING PROFILE

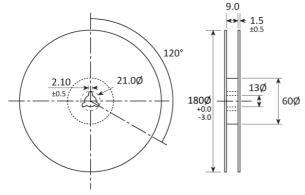


Lead free solderability limits: 260°C ±5°C x 10s ±5s x 2.



TAPE & REEL SPECIFICATION





HANDLING & STORAGE



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



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

CONSTRUCTION

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

COMPLIANCE



Dimensions in mm

Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions. See our

declaration



REACH compliant. See our statement



Free of conflict minerals. See our declaration



Free of Halogens. <u>See our declaration</u>



Free of Ozone-depleting substances. <u>See our</u>

declaration