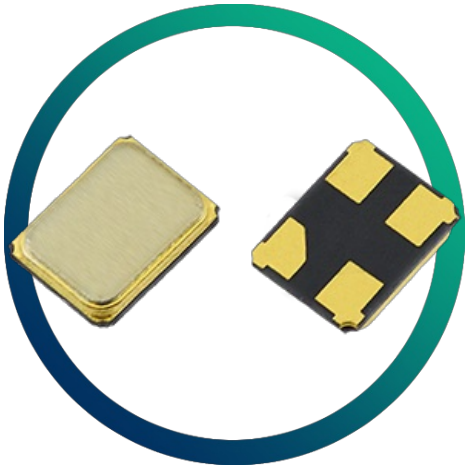
GSX-211

Ultra-miniature 1.6x1.2mm SM Crystal



- Ultra-miniature for maximum space saving
- Ideal for Bluetooth, NFC, Smartcard, wireless and more
- Metal lid grounded to minimise EMI
- Seam sealed for excellent long-term stability

CONFIGURABLE OPTIONS

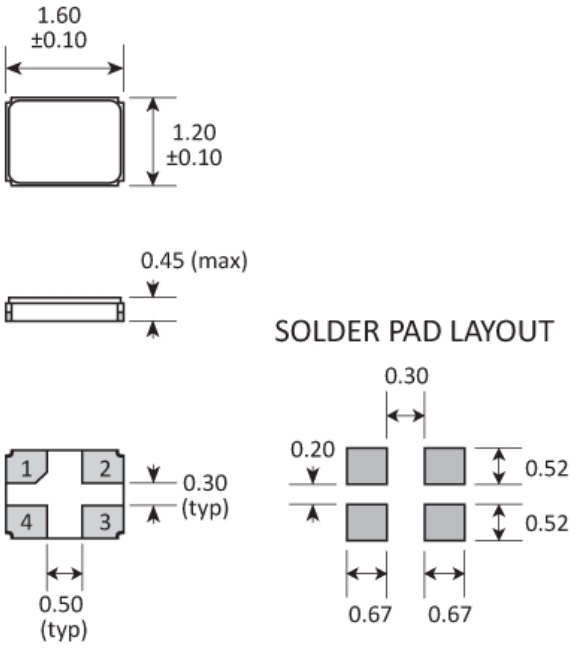
Parameter	Option Code
Frequency	
Calibration tolerance	
Any	
±10ppm	1
±15ppm	P
±20ppm	2
Temperature stability	
Any	
±10ppm	1
±15ppm	P
±20ppm	2
Operating temperature range	
Any	
-20 to +70°C	2
-30 to +85°C	3
Circuit condition	
Any	
5pF	R
8pF	M
9pF	N
10pF	A
Series resonant	S
Oscillation mode	
Fundamental	F

*** ±10ppm temperature stability may not be available over -30+85°C. Check with our sales office before ordering**

SPECIFICATIONS

Frequency range	24.0 ~ 54.0MHz
Dimensions	1.6 x 1.2 x 0.45mm
Storage temperature range	-40 to +90°C
Static capacitance (C_0)	5pF max
Equivalent series resistance	100Ω max (24.0 ~ 37.39MHz) 80Ω max (37.4 ~ 54.0MHz)
Ageing	±2ppm max first year
Test drive level	10µW typ, 100µW max
Soldering condition	260°C, 10 sec x2 max

PACKAGE DRAWING



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

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the GSX-211 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.

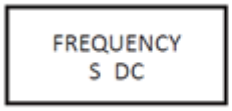
APPLICATIONS

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
Qualcomm (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

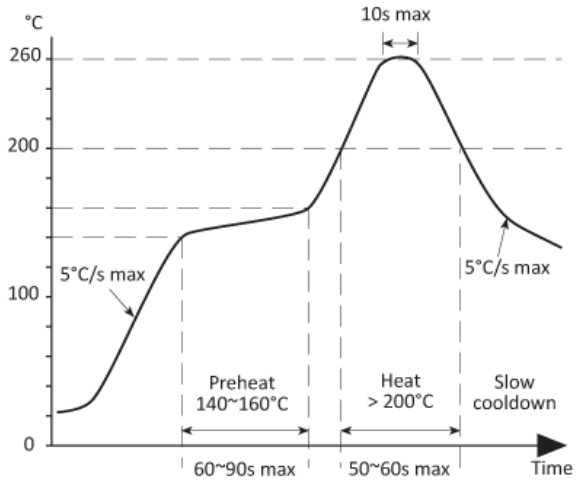


Marking type: Laser

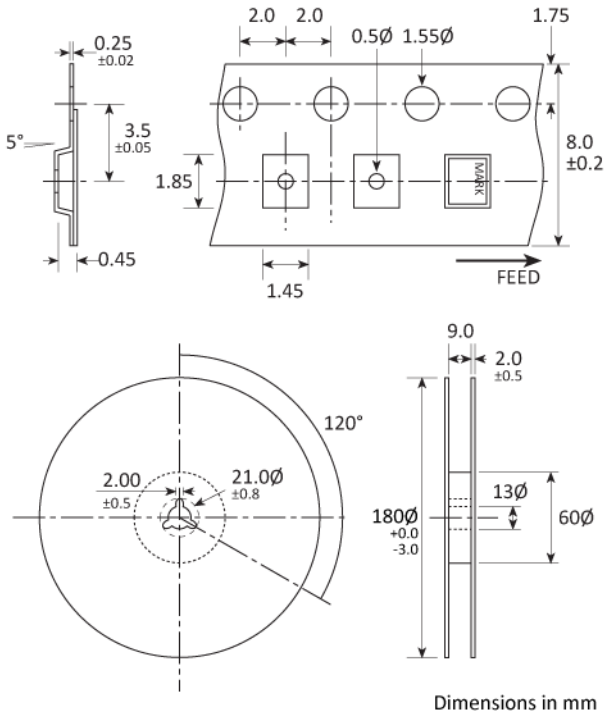
DC = Date Code in YM, eg. "GF" = Jun 2017

	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



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

MATERIAL COMPOSITION

Lead-free (< 0.1% by weight)

RoHS 2 compliant with no exemptions. See our declaration

REACH compliant. See our statement

Free of conflict minerals. See our declaration

Free of Halogens. See our declaration

Free of Ozone-depleting substances. See our declaration

COMPOSITION

MCDFamily GCX-39.pdf

OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).
To take advantage of our highly praised service get in touch with us today.