

# 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 1 ±10ppm Ρ ±15ppm ±20ppm 2 Temperature stability Any ±10ppm 1 ±15ppm Ρ 2 ±20ppm Operating temperature range Any -20 to +70°C 2 -30 to +85°C 3 Circuit condition Any R 5pF 8pF Μ 9pF Ν А 10pF S Series resonant Oscillation mode Fundamental F

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

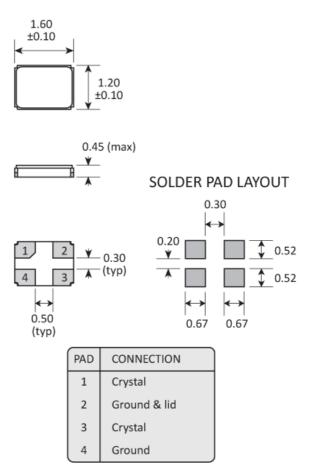




## **SPECIFICATIONS**

Frequency range	24.0 ~ 54.0MHz
Dimensions	1.6 x 1.2 x 0.45mm
Storage temperature	-40 to +90°C
range	
Static capacitance (C <sub>0</sub> )	5pF max
Equivalent series	100Ω max (24.0 ~ 37.39MHz)
resistance	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**



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

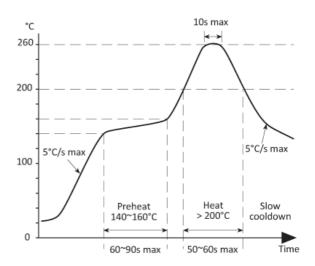


Marking type: Laser

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

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		Α	В	С	D	Е	F	G	н	J	К	L	м
	Y	1	2	3	4	5	6	7	8	9	0		
Г	м	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

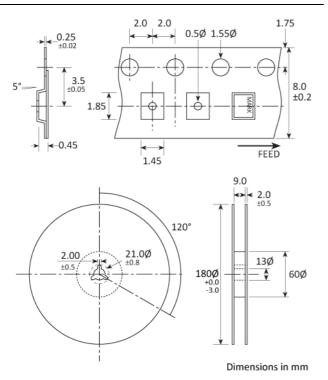
#### SOLDERING PROFILE







### **TAPE & REEL SPECIFICATION**



## CONSTRUCTION

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

## **HANDLING & STORAGE**



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

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

## MATERIAL COMPOSITION



Lead-free (< 0.1% by weight )



RoHS 2 compliant with no exemptions. <u>See our</u>

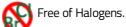
declaration



REACH compliant. <u>See our statement</u>



Free of conflict minerals. See our declaration



ens. <u>See our declaration</u>



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

## 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.

#### Come and visit

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#### Give us a call

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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.



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