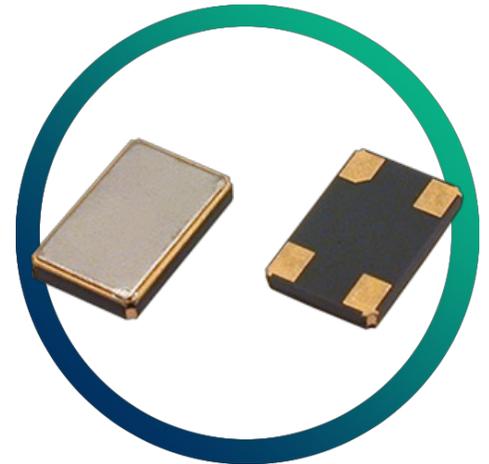


# GSX-533

## 5.0 x 3.2mm SM Crystal for Bluetooth / Wireless



- Good frequency perturbation
- Metal lid can be grounded to minimise EMI
- Seam seal for excellent long-term stability
- Tight specifications available
- Ultra-miniature for maximum space saving

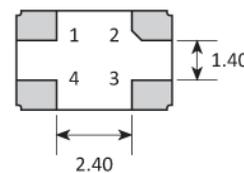
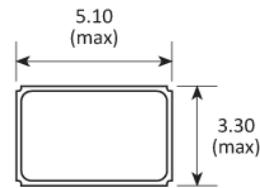
### CONFIGURABLE OPTIONS

Parameter	Option Code
<b>Frequency</b>	
<b>Calibration tolerance</b>	
Any	
±10ppm	1
±20ppm	2
±30ppm	3
<b>Temperature stability</b>	
Any	
±10ppm	1
±20ppm	2
±30ppm	3
<b>Operating temperature range</b>	
Any	
-10 to +60 °C	1
-20 to +70 °C	2
-30 to +80 °C	3
-40 to +85 °C	4
<b>Circuit condition</b>	
Any	
9pF	N
12pF	B
16pF	D
<b>Oscillation mode</b>	
Any	
Fundamental	F
3rd overtone (>54.0MHz)	3

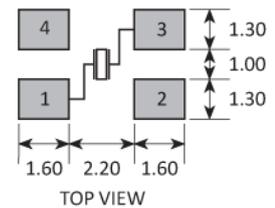
## SPECIFICATIONS

Frequency range	8.0 ~ 54.0MHz (54.0 ~ 160MHz, 3rd OT under dev)
Dimensions	5.0 x 3.2 x 0.9mm
Storage temperature range	-40 to +85 °C
Equivalent series resistance (max)	100Ω (8.0 ~ 11.99MHz) .. 60Ω (12.0 ~ 13.99MHz) .. 50Ω (14.0 ~ 15.99MHz) .. 40Ω (16.0 ~ 54.0MHz)
Perturbations	±1ppm max
Ageing	±1ppm max first year
Test drive level	10μW
Soldering condition	260 °C, 10 sec x2 max
Net mass	42.7mg

## PACKAGE DRAWING



### SOLDER PAD LAYOUT



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

Dimensions in mm

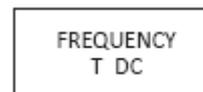
## ORDERING INFORMATION

To request a quotation for the GSX-533 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

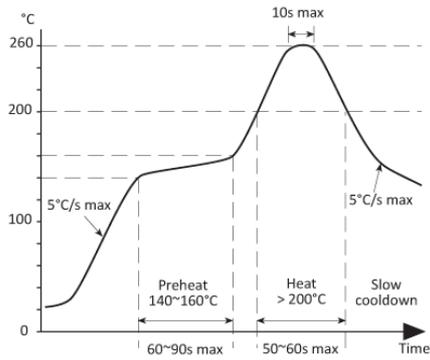
DC = Date code in YW

Year	2013	2014	2015	2016
	2017	2018	2019	2020
Code	Z	z	⌞	⌟

 Week codes:  
A ~ Z: weeks 1 to 26  
a ~ z: weeks 27 to 52

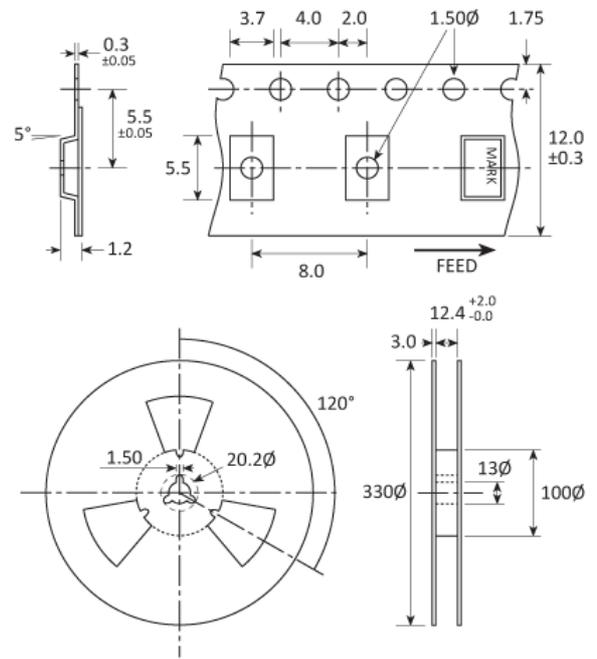
Example: "zC" = 2018 week 3

**SOLDERING PROFILE**



Solderability limits: 260°C max x 10sec max x 2 max

**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

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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.