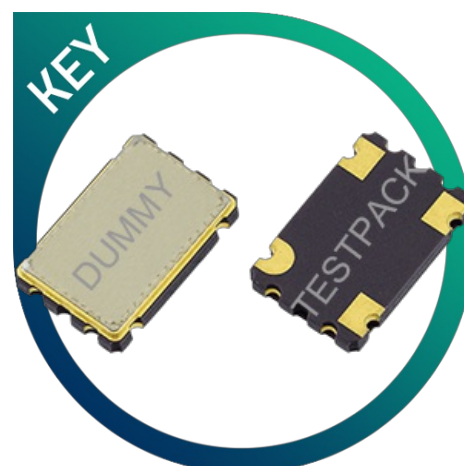


GSX-221

SM Crystal

- Ultra-miniature for maximum space saving
- Ideal for Bluetooth / Wireless applications
- High reliability & tight stability
- Metal lid can be 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
±30ppm	3
Operating temperature range	
Any	
-10 to +60°C	1
-20 to +70°C	2
-30 to +80°C	3
Circuit condition	
Any	
8pF	M
9pF	N
12pF	B
Oscillation mode	
Fundamental	F

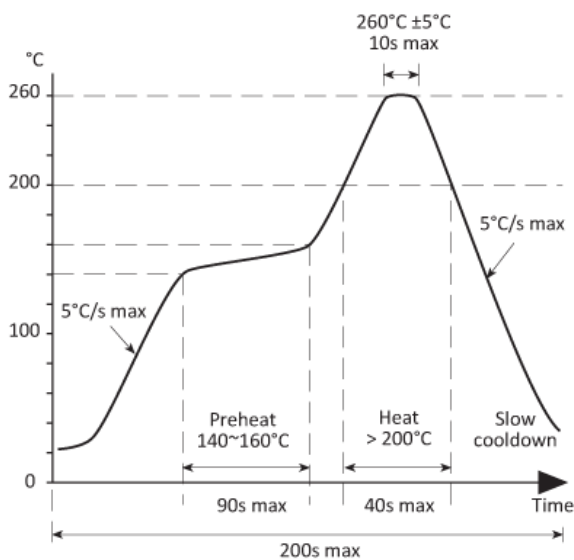
SPECIFICATIONS

Frequency range	16.0 ~ 56.0MHz
Storage temperature range	-40 to +90°C
Equivalent series resistance (max)	150Ω (16.0 ~ 19.9MHz) 100Ω (20.0 ~ 29.9MHz) 80Ω (30.0 ~ 35.9MHz) 60Ω (36.0 ~ 56.0MHz)
Ageing	±3ppm max first year
Static capacitance (C ₀)	5pF max
Test drive level	10μW typ
Soldering condition	260°C, 10 sec x2 max

PACKAGE DRAWING



SOLDERING PROFILE



TAPE & REEL SPECIFICATION



HANDLING & STORAGE



Product is RoHS 2 compliant



[REACH Compliance Statement](#)



text and link to Conflict Minerals pdf statement



Text and link to Halogen Free pdf statement



Text and link to Ozone depletion statement pdf



Text and link to Ozone depletion statement pdf



Moisture Sensitivity Level (MSL): 1

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)

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.