

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

### **Features**

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

# **Specifications**

Parameters	Product GSX-531	Option Codes	
Frequency range: 8.0 ~ 100MHz	G3A-331	Coucs	
Calibration tolerance: ±5ppm ±10ppm ±20ppm ±30ppm Other values	- - - -	L 1 2 3 specify	
Temperature stability: ±5ppm ±10ppm ±15ppm ±20ppm ±30ppm Other values	0	L 1 P 2 3 specify	
Operating temperature range:  0 to +50°C -10 to +60°C -20 to +70°C -30 to +80°C -40 to +85°C Other values		0 1 2 3 4 specify	
Storage temperature range: -40 to +90°C	•		
Circuit condition: 9pF 12pF 16pF 20pF 30pF Other values	- - - -	N B D F J specify	
Oscillation mode: Fundamental (8.0 ~ 54.0MHz) 3rd overtone (40.0 ~ 100MHz)		F 3	
Static capacitance (C <sub>0</sub> ): 7pF max	•		
Equivalent series resistance: $60\Omega \ (8.0 \ ^{\circ} \ 10.9 \text{MHz}) \\ 50\Omega \ (11.0 \ ^{\circ} \ 11.9 \text{MHz}) \\ 40\Omega \ (12.0 \ ^{\circ} \ 24.9 \text{MHz}) \\ 30\Omega \ (25.0 \ ^{\circ} \ 54.0 \text{MHz}, \text{ fund}) \\ 120\Omega \ (40.0 \ ^{\circ} \ 59.9 \text{MHz}, \text{ 3rd OT}) \\ 80\Omega \ (60.0 \ ^{\circ} \ 100 \text{MHz}, \text{ 3rd OT})$			
Ageing: ±3ppm max first year ±1ppm max first year		specify	
Test drive level: 10µW typ, 100µW max	•		
Soldering condition: 260°C, 10 sec x2 max	•		

<sup>■</sup> Standard. □ Optional - Please specify required code(s) when ordering

# **Ordering Information**

Product name + option codes + frequency eg: **GSX-531/111DF 12.80MHz** 10/10/10/16-F **GSX-531/LP2JF 24.5760MHz** 05/15/20/30-F

Option code X (eg GSX-531/X) denotes a custom specification.

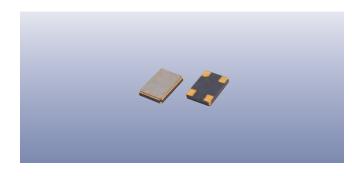
Golledge

Tel: **+44 1460 256 100** 

Fax: **+44 1460 256 101** 

E-mail: sales@golledge.com





### **Packaging & Handling**

Production quantities supplied on T&R, 1k pcs per reel. Small quantities may be supplied on tape (no reel), or in bulk.

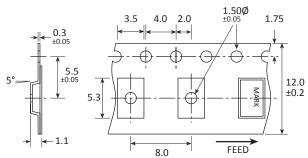
### Marking

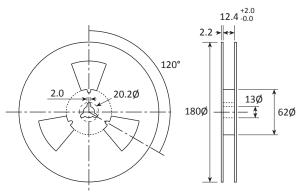
EDEOLIENIOV	
FREQUENCY	
S DC	

Marking type: Laser DC = Date code in YM, eg "EB" = Feb 2015

	Α	В	С	D	Е	F	G	Н	J	K	L	M
Υ	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

### **Tape & Reel Specification**





Not to scale. Dimensional tolerances ±0.1mm unless otherwise stated.

### Construction

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

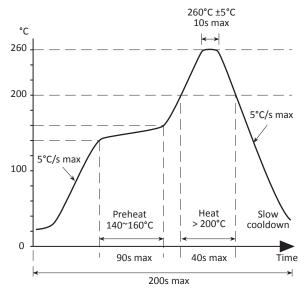
#### Composition



This product is lead-free, and is fully compliant with the RoHS directive 2011/65/EC



## **Soldering Profile**



Maximum solder resistance: 260°C x 10 secs x 2.

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