



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

Scale 3:1

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**

Standard Frequencies

Frequencies in MHz			
12.600000	13.000000	19.200000	20.657500
12.800000	14.400000	19.680000	20.945000

Other frequencies available. Please consult our sales office.

Temperature Stability

The table shows available combinations of stability (in ppm) and temperature range.

	±30	±20	±15	±10	±5
0 to +50°C	•	•	•	•	•
-10 to +60°C	•	•	•	•	•
-20 to +70°C	•	•	•	•	-
-30 to +80°C	•	•	•	-	-
-40 to +85°C	•	•	-	-	-

Specifications

Parameters	Product	Option Codes
	GSX-531	
Frequency range: 12.0 ~ 40.0MHz	■	
Calibration tolerance:		
±5ppm	□	L
±10ppm	■	1
±20ppm	□	2
±30ppm	□	3
Other values	□	specify
Temperature stability:		
±5ppm	□	L
±10ppm	■	1
±15ppm	□	P
±20ppm	□	2
±30ppm	□	3
Other values	□	specify
Operating temperature range:		
0 to +50°C	□	0
-10 to +60°C	■	1
-20 to +70°C	□	2
-30 to +80°C	□	3
-40 to +85°C	□	4
Other values	□	specify
Storage temperature range:		
-40 to +90°C	■	
Circuit condition:		
9pF	□	N
12pF	□	B
16pF	■	D
20pF	□	F
30pF	□	J
Other values	□	specify
Oscillation mode: Fundamental	■	F
Static capacitance (C₀): 7pF max	■	
Equivalent series resistance:		
40Ω max	■	
Ageing:		
±3ppm max first year	■	
±1ppm max first year	□	specify
Test drive level: 100µW	■	
Soldering condition:		
260°C, 10 sec x2 max	■	

■ 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.

- ◆ Available on T&R - 3k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.