



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	
<b>Frequency range:</b> 12.0 ~ 40.0MHz	■	
<b>Calibration tolerance:</b> ±5ppm	<input type="checkbox"/>	L
±10ppm	■	1
±20ppm	<input type="checkbox"/>	2
±30ppm	<input type="checkbox"/>	3
Other values	<input type="checkbox"/>	specify
<b>Temperature stability:</b> ±5ppm	<input type="checkbox"/>	L
±10ppm	■	1
±15ppm	<input type="checkbox"/>	P
±20ppm	<input type="checkbox"/>	2
±30ppm	<input type="checkbox"/>	3
Other values	<input type="checkbox"/>	specify
<b>Operating temperature range:</b> 0 to +50°C	<input type="checkbox"/>	0
-10 to +60°C	■	1
-20 to +70°C	<input type="checkbox"/>	2
-30 to +80°C	<input type="checkbox"/>	3
-40 to +85°C	<input type="checkbox"/>	4
Other values	<input type="checkbox"/>	specify
<b>Storage temperature range:</b> -40 to +90°C	■	
<b>Circuit condition:</b> 9pF	<input type="checkbox"/>	N
12pF	<input type="checkbox"/>	B
16pF	■	D
20pF	<input type="checkbox"/>	F
30pF	<input type="checkbox"/>	J
Other values	<input type="checkbox"/>	specify
<b>Oscillation mode:</b> Fundamental	■	F
<b>Static capacitance (C<sub>0</sub>):</b> 7pF max	■	
<b>Equivalent series resistance:</b> 40Ω max	■	
<b>Ageing:</b> ±3ppm max first year	■	
±1 ppm max first year	<input type="checkbox"/>	specify
<b>Test drive level:</b> 100µW	■	
<b>Soldering condition:</b> 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.