



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 sealed for excellent long-term stability**
- ▶ **Ultra-miniature for maximum space saving**
- ▶ **Ideal for Bluetooth applications**

## Standard Frequencies

Frequencies in MHz	
13.00000	25.00000
16.00000	26.00000
24.57600	32.00000

Other frequencies available. Please consult our sales office.

## Specifications

Parameters	Product	Option Codes
	GSX-431	
<b>Frequency range:</b> 13.0 ~ 32.0MHz	■	
<b>Calibration tolerance:</b> ±10ppm ±15ppm ±20ppm Other values (±7.5 ~ ±100ppm)	■ □ □ □	1 P 2 specify
<b>Temperature stability:</b> ±10ppm ±15ppm ±20ppm ±30ppm Other values (±7.5 ~ ±100ppm)	■ □ □ □ □	1 P 2 3 specify
<b>Operating temperature range:</b> -10 to +60°C -20 to +70°C -30 to +80°C Other values	■ □ □ □	1 2 3 specify
<b>Storage temperature range:</b> -40 to +90°C	■	
<b>Circuit condition:</b> 9pF 12pF 16pF Series resonant Other values	□ □ ■ □ □	N B D S specify
<b>Oscillation mode:</b> Fundamental	■	F
<b>Static capacitance (C<sub>0</sub>):</b> 7pF max	■	
<b>Equivalent series resistance (max):</b> 80Ω (13.0 ~ 16.0MHz) 60Ω (>16.0 ~ 32.0MHz)	■ ■	
<b>Ageing:</b> ±3ppm max first year ±1ppm max first year	■ □	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-431/111DF 16.0MHz** 10/10/10/16-F

**GSX-431/1P3AF 26.0MHz** 10/15/30/10-F

Option code X (eg GSX-431/X) denotes a custom specification.

- ◆ ±10ppm temperature stability may not be available over -30+80°C. Check with our sales office before ordering.
- ◆ Available on T&R - 1k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.