



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

## 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

## Specifications

Parameters	Product	Option Codes
	GSX-431	
Frequency range:	13.0 ~ 32.0MHz	<input checked="" type="checkbox"/>
Calibration tolerance:	±10ppm	<input checked="" type="checkbox"/>
	±15ppm	<input type="checkbox"/>
	±20ppm	<input type="checkbox"/>
	Other values (±7.5 ~ ±100ppm)	<input type="checkbox"/>
Temperature stability:	±10ppm	<input checked="" type="checkbox"/>
	±15ppm	<input type="checkbox"/>
	±20ppm	<input type="checkbox"/>
	±30ppm	<input type="checkbox"/>
	Other values (±7.5 ~ ±100ppm)	<input type="checkbox"/>
Operating temperature range:	-10 to +60°C	<input checked="" type="checkbox"/>
	-20 to +70°C	<input type="checkbox"/>
	-30 to +80°C	<input type="checkbox"/>
	Other values	<input type="checkbox"/>
Storage temperature range:	-40 to +90°C	<input checked="" type="checkbox"/>
Circuit condition:	9pF	<input type="checkbox"/>
	12pF	<input type="checkbox"/>
	16pF	<input checked="" type="checkbox"/>
	Series resonant	<input type="checkbox"/>
	Other values	<input type="checkbox"/>
Oscillation mode:	Fundamental	<input checked="" type="checkbox"/>
Static capacitance (C <sub>0</sub> ):	7pF max	<input checked="" type="checkbox"/>
Equivalent series resistance (max):	80Ω (13.0 ~ 16.0MHz)	<input checked="" type="checkbox"/>
	60Ω (>16.0 ~ 32.0MHz)	<input checked="" type="checkbox"/>
Ageing:	±3ppm max first year	<input checked="" type="checkbox"/>
	±1ppm max first year	<input type="checkbox"/>
Test drive level:	100μW	<input checked="" type="checkbox"/>
Soldering condition:	260°C, 10 sec x2 max	<input checked="" type="checkbox"/>

■ 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.