



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 ±15ppm ±20ppm Other values (±7.5 ~ ±100ppm)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1 P 2 specify
Temperature stability: ±10ppm ±15ppm ±20ppm ±30ppm Other values (±7.5 ~ ±100ppm)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1 P 2 3 specify
Operating temperature range: -10 to +60°C -20 to +70°C -30 to +80°C Other values	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1 2 3 specify
Storage temperature range: -40 to +90°C	<input checked="" type="checkbox"/>	
Circuit condition: 9pF 12pF 16pF Series resonant Other values	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N B D S specify
Oscillation mode: Fundamental	<input checked="" type="checkbox"/>	F
Static capacitance (C₀): 7pF max	<input checked="" type="checkbox"/>	
Equivalent series resistance (max): 80Ω (13.0 ~ 16.0MHz) 60Ω (>16.0 ~ 32.0MHz)	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Ageing: ±3ppm max first year ±1ppm max first year	<input checked="" type="checkbox"/> <input type="checkbox"/>	specify
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.