



## 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

## Temperature Stability

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

	±30	±20	±15	±10	±7.5
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-331	
<b>Frequency range:</b> 16.0 ~ 40.0MHz	■	
<b>Calibration tolerance:</b> ±7.5ppm ±10ppm ±20ppm ±30ppm Other values	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M 1 2 3 specify
<b>Temperature stability:</b> ±7.5ppm ±10ppm ±15ppm ±20ppm ±30ppm Other values	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M 1 P 2 3 specify
<b>Operating temperature range:</b> 0 to +50°C -10 to +60°C -20 to +70°C -30 to +80°C -40 to +85°C Other values	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0 1 2 3 4 specify
<b>Storage temperature range:</b> -40 to +90°C	■	
<b>Circuit condition:</b> 10pF 12pF 16pF 20pF 30pF Other values	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	A B D F J specify
<b>Oscillation mode:</b> Fundamental	■	F
<b>Static capacitance (C<sub>0</sub>):</b> 7pF max	■	
<b>Equivalent series resistance (max):</b> 100Ω (16.0 ~ 23.9MHz) 80Ω (24.0 ~ 31.9MHz) 60Ω (32.0 ~ 40.0MHz)	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
<b>Ageing:</b> ±3ppm max first year ±1ppm max first year	<input checked="" type="checkbox"/> <input type="checkbox"/>	specify
<b>Test drive level:</b> 100μW	■	
<b>Soldering condition:</b> 240°C, 10 sec x2 max	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

## Ordering Information

Product name + option codes + frequency  
 eg: **GSX-331/111DF 12.80MHz** 10/10/16-F  
**GSX-331/MP2JF 24.5760MHz** 7.5/15/20/30-F  
 Option code X (eg GSX-331/X) denotes a custom specification.

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