



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

Scale 2:1

## Features

- ▶ **Metal lid can be grounded to minimise EMI**
- ▶ **Seam seal for excellent long-term stability**
- ▶ **Fundamental mode up to 45.0MHz**
- ▶ **Tight specifications available**

## Standard Frequencies

Fundamental in MHz			
10.000000	16.000000	24.000000	32.000000
11.059200	16.000312	24.000140	33.868800
12.000000	16.588800	24.576000	35.251200
14.318180	18.432000	25.000000	36.000000
14.745600	19.660800	29.491200	40.000000
15.000000	20.000000	30.000000	

## Temperature Stability

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

	±20	±15	±10	±7.5	±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-641	
<b>Frequency range:</b> 9.20 ~ 45.0MHz	■	
<b>Calibration tolerance:</b>		
±5ppm	□	L
±7.5ppm	□	M
±10ppm	■	1
±20ppm	□	2
Other values	□	specify
<b>Temperature stability:</b>		
±5ppm	□	L
±7.5ppm	□	M
±10ppm	■	1
±15ppm	□	P
±20ppm	□	2
Other values	□	specify
<b>Operating temperature range:</b>		
0 to +50°C	□	0
-10 to +60°C	■	1
-20 to +70°C	□	2
-30 to +80°C	□	3
-40 to +85°C	□	4
Other values	□	specify
<b>Circuit condition:</b>		
10pF	□	A
12pF	□	B
16pF	■	D
18pF	□	E
20pF	□	F
30pF	□	J
Other values	□	specify
<b>Static capacitance (C<sub>0</sub>):</b> 7pF max	■	
<b>Equivalent series resistance (max):</b>		
50Ω (9.20 ~ 11.9MHz)	■	
40Ω (12.0 ~ 24.9MHz)	■	
30Ω (25.0 ~ 45.0MHz)	■	
<b>Ageing:</b>		
±3ppm max first year	■	
±1ppm max first year	□	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-641/111D 16.0MHz** 10/10/10/16-F

**GSX-641/LM1B 36.0MHz** 05/7.5/10/12-F

Option code X (eg GSX-641/X) denotes a custom specification.

- ◆ Available on T&R - 1k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.