



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

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**

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	
Frequency range: 9.20 ~ 45.0MHz	■	
Calibration tolerance:		
±5ppm	□	L
±7.5ppm	□	M
±10ppm	■	1
±20ppm	□	2
Other values	□	specify
Temperature stability:		
±5ppm	□	L
±7.5ppm	□	M
±10ppm	■	1
±15ppm	□	P
±20ppm	□	2
Other values	□	specify
Operating temperature range:		
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
Circuit condition:		
10pF	□	A
12pF	□	B
16pF	■	D
18pF	□	E
20pF	□	F
30pF	□	J
Other values	□	specify
Oscillation mode: Fundamental	■	F
Static capacitance (C₀): 7pF max	■	
Equivalent series resistance (max):		
50Ω (9.20 ~ 11.9MHz)	■	
40Ω (12.0 ~ 24.9MHz)	■	
30Ω (25.0 ~ 45.0MHz)	■	
Ageing:		
±3ppm max first year	■	
±1ppm max first year	□	specify
Test drive level: 100μW	■	
Soldering condition: 260°C, 10 sec x2 max	■	

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

Ordering Information

Product name + option codes + frequency

eg: **GSX-641/111DF 16.0MHz** 10/10/10/16-F

GSX-641/LM1BF 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.