426MHz SAW Filter
11.5MHz Bandwidth

Part Number: LBS42603

Features

- ✧ For RF SAW filter
- ✧ Single-ended operation
- ✧ Ceramic Surface Mount Package
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

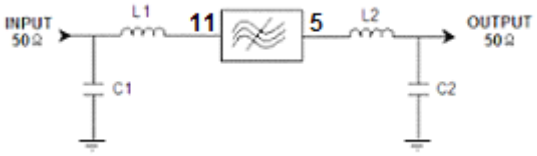
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	425.85	426	426.15
Insertion Loss	dB		23.3	30
1.5dB Bandwidth	MHz	11.5	11.81	
40dB Bandwidth	MHz		15.31	16
Passband Variation	dB		0.6	1.0
Ultimate Rejection	dB	42	43	
Absolute Delay	usec		1.13	
Material Temperature coefficient	kHz/°C		0.43	
Substrate Material	-		QZ	
Ambient Temperature	°C		25	
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-45	-	+105
ESD Class	-		1C	
Package Size			SMD1365	

Notes:

1. All specifications are based on the test circuit shown;
2. In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
4. This is the optimum impedance in order to achieve the performance show.

Matching Configuration

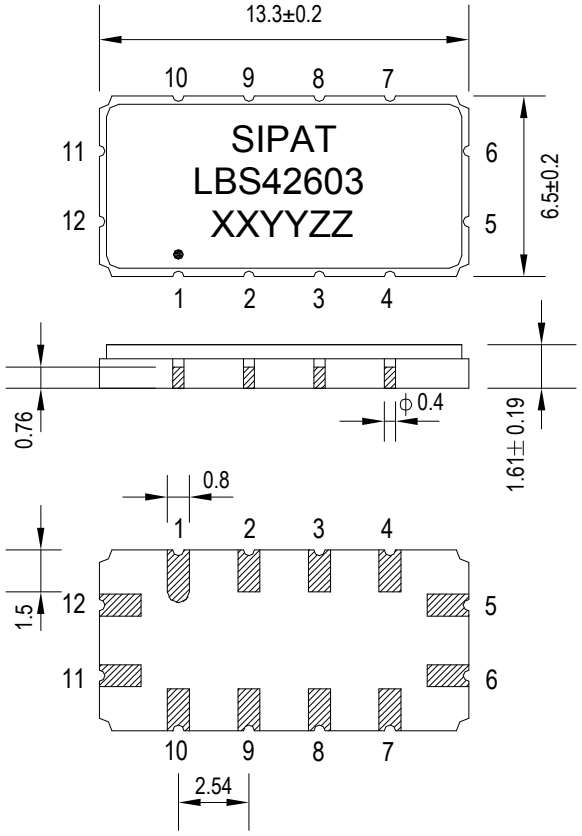
手动测试座



L1=27nH L2=18nH
C1=18pF C2=22pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



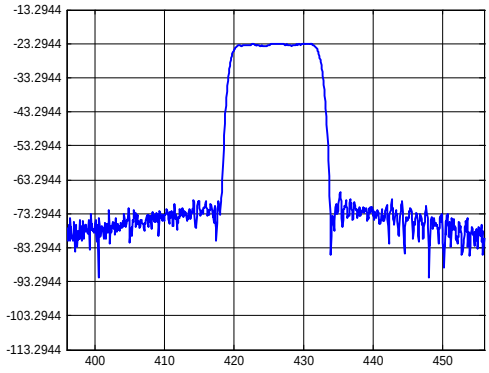
Pad Configuration:
Input: 11
Output: 5
Ground: All Others

Marking Configuration:
1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) LBS42603: Part Number
4) XXYYZZ: Date Code

Package: SMD1365 **Unit: mm**

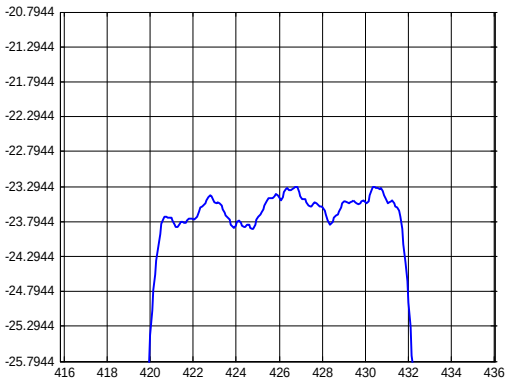
Typical Performance

Frequency Response



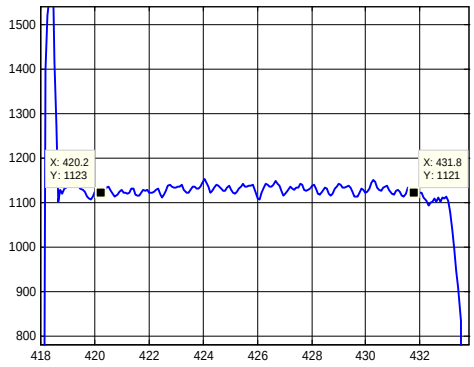
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Response



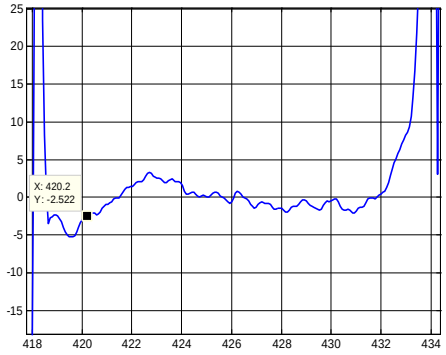
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



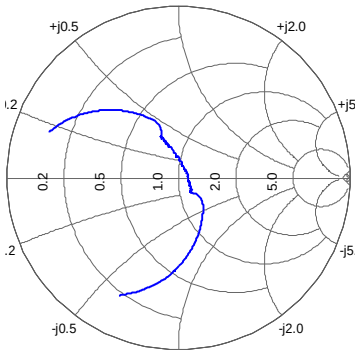
Horizontal: 2MHz/Div Vertical: 100ns/Div

Phase Linearity



Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22

