140MHz SAW Filter
11.1MHz Bandwidth

Part Number:LBN140A77

Features

- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

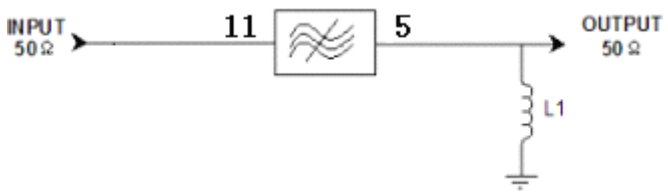
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.85	140	140.15
Insertion Loss	dB	-	21	24
1.5dB Bandwidth	MHz	11.1	11.18	-
40dB Bandwidth	MHz		12.95	13
Passband Variation	dB	-	0.7	1.5
Absolute Delay	usec	-	1.61	2.0
Ultimate Rejection	dB	40	48	-
Material Temperature coefficient	KHz/°C	-13.16		
Substrate Material	-	YZ-LN		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-25	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	SMD1365C			

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

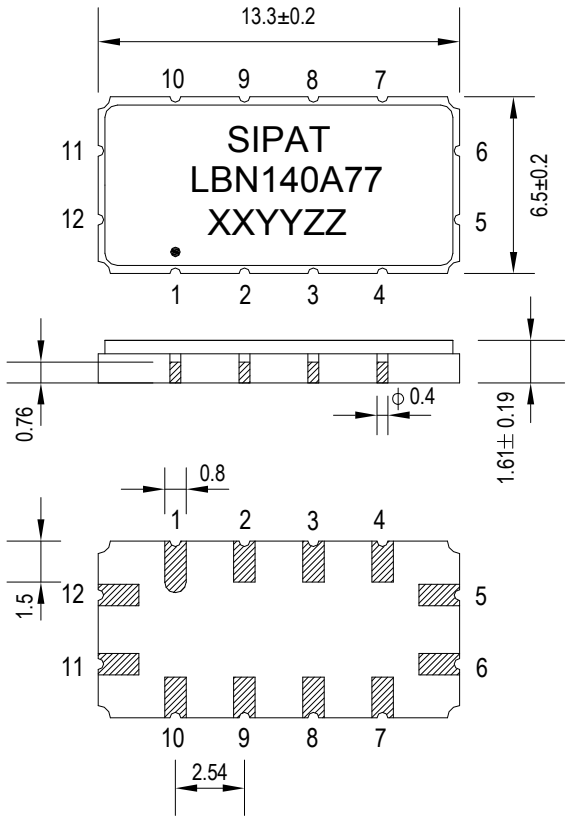


L1=39nH

Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 11

Output 5

Ground All other

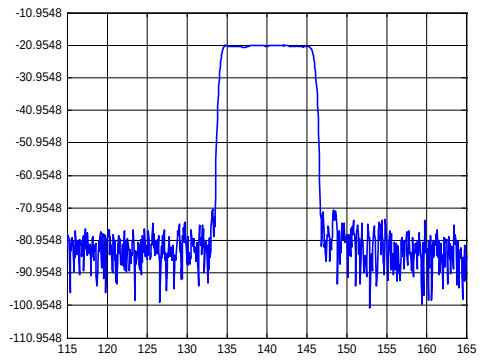
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBN140A77: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: SMD1365C **Unit: mm**

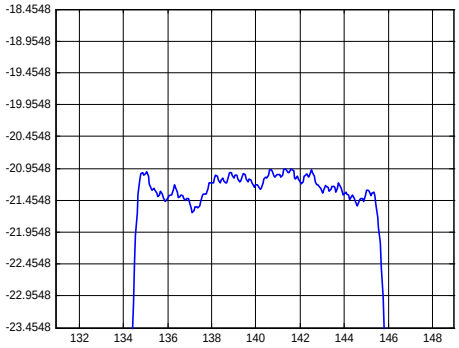
Typical Performance

Frequency Response



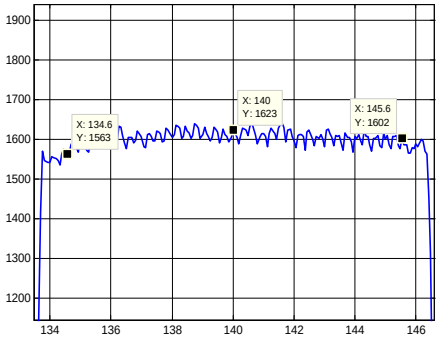
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



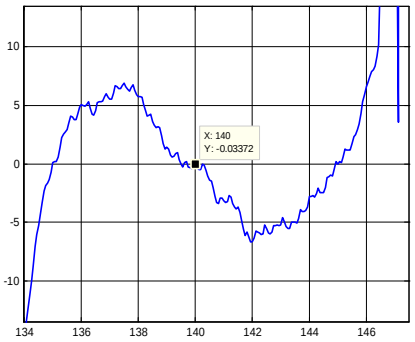
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



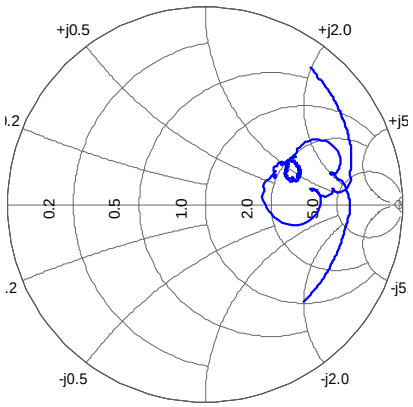
Horizontal: 2MHz/Div Vertical: 200ns/Div

Phase Linearity



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

Smith Chart S11



Smith Chart S22

