140MHz SAW Filter
19.4MHz Bandwidth

Part Number: LBN14067

Features

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

Specifications

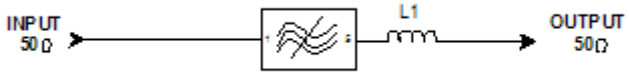
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.9	140	140.1
Insertion Loss	dB	-	26.8	28
1.5 dB Bandwidth	MHz	19.4	19.48	-
25 dB Bandwidth	MHz	-	20.37	20.4
30 dB Bandwidth	MHz	-	20.43	21
Group delay Variation(f0±7.76MHz)	nsec	-	60	120
Phase Linearity(f0±7.76MHz)	degree	-	10	12
Passband Variation	dB	-	0.8	1.5
Absolute Delay	usec	-	2.48	2.5
Ultimate Rejection	dB	30	40	-
Material Temperature coefficient	KHz/°C		-13.16	
Substrate Material	-		YZ-LN	
Ambient Temperature	°C		25	
Operating Temperature Range	°C	-25	-	+85
DC Voltage	V		0	
Input Power	dBm	-	-	10
ESD Class	-		1A	
Package Size			DIP2712 (27.0x12.8x4.7)	

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

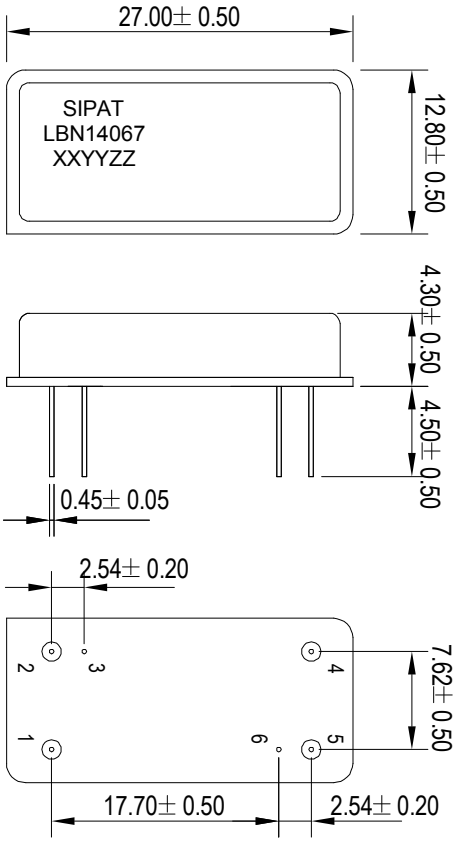


L1=33nH

Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input	1
Output	5
Ground	2,3,4,6

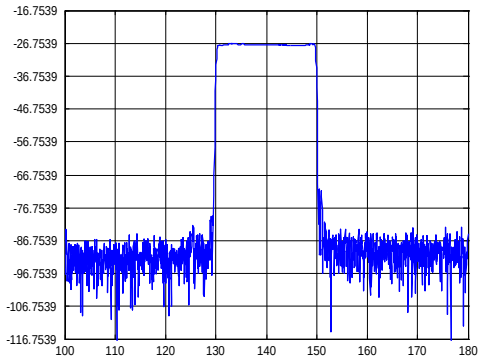
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBN14067: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP2712 **Unit: mm**

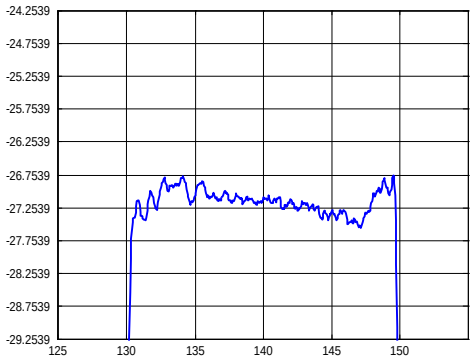
Typical Performance

Frequency Response



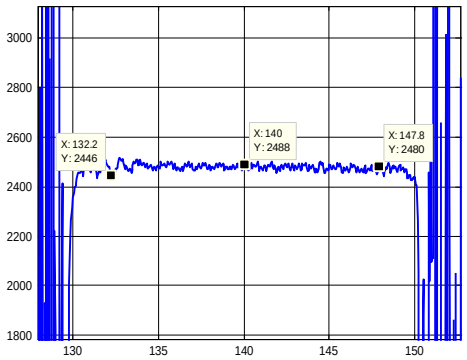
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Response



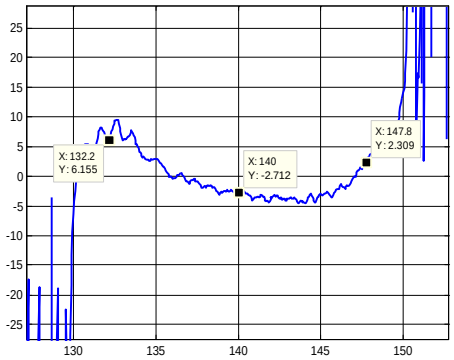
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



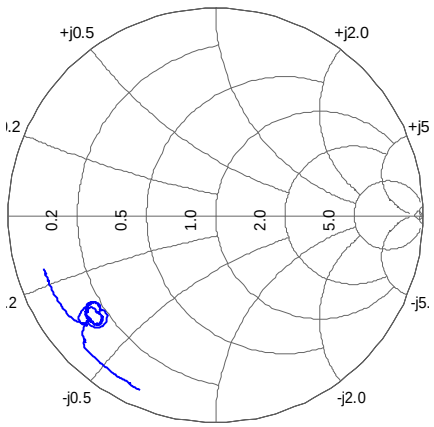
Horizontal: 5MHz/Div Vertical: 200ns/Div

Phase Linearity



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

Smith Chart S11



Smith Chart S22

