



Features


- ◇ For IF SAW filter
- ◇ Single-ended operation
- ◇ Ceramic Surface Mount Package
- ◇ Small size
- ◇ RoHS compliant (2002/95/EC), Pb-free

Specifications

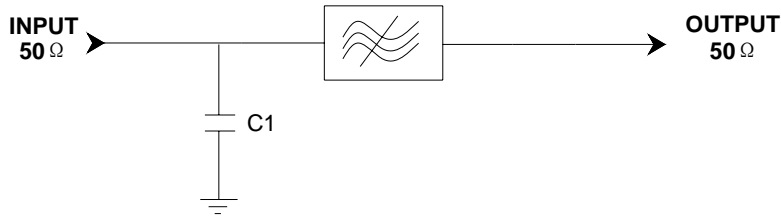
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	138.1	138.24	138.38
Insertion Loss	dB	-	26.7	28
1.2dB Bandwidth	MHz	24	24.04	-
3 dB Bandwidth	MHz	24.2	24.47	-
35 dB Bandwidth	MHz	-	26.1	26.2
Passband Variation	dB	-	0.8	1.2
Phase Linearity($f_0 \pm 11\text{MHz}$)	deg	-	6	8
Group Delay Variation($f_0 \pm 11\text{MHz}$)	nsec	-	45	60
Absolute Delay	usec	-	1.46	1.5
Ultimate Rejection	dB	42	45	-
Material Temperature coefficient	KHz/°C	-11.34		
Substrate Material	-	128LN		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	SMD13.3*6.5C			

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.

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBN13809	
		Rev. Date	2008-03-26	
		Ver.	1.0	Page

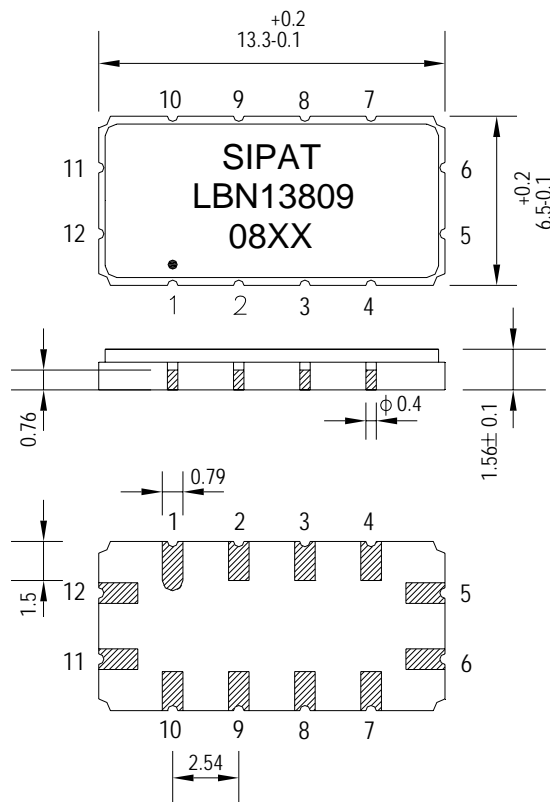
Matching Configuration



C1=8.2pF
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) LBN13809: Part Number
- 4) 08XX: Date Code

Package: SMD13.3*6.5C

Unit: mm



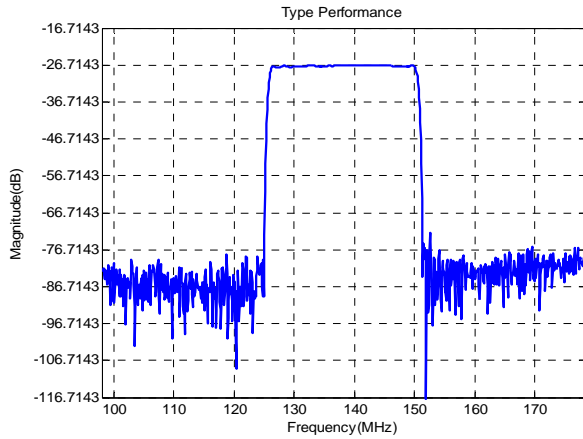
SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBN13809	
Rev. Date	2008-03-26	
Ver.	1.0	Page 2/3



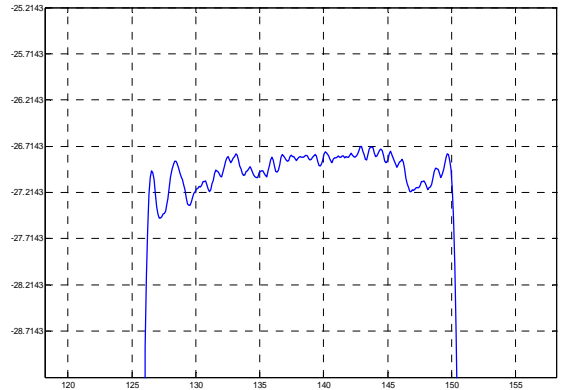
Typical Performance

Frequency Respond



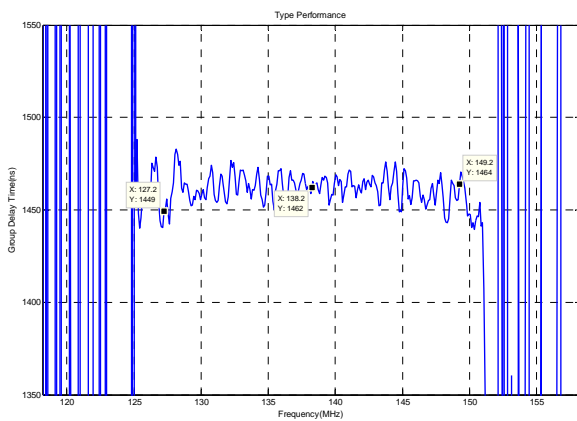
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



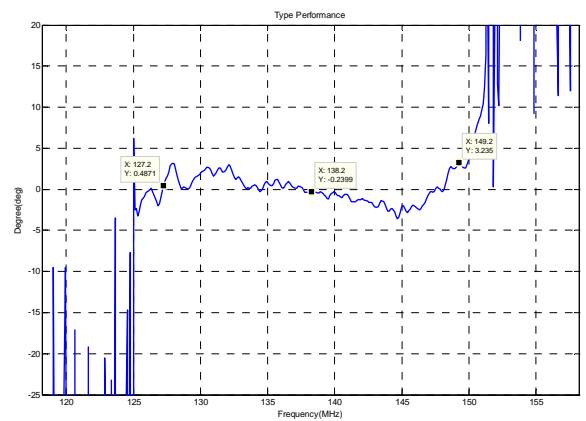
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation($f_0 \pm 11$ MHz)



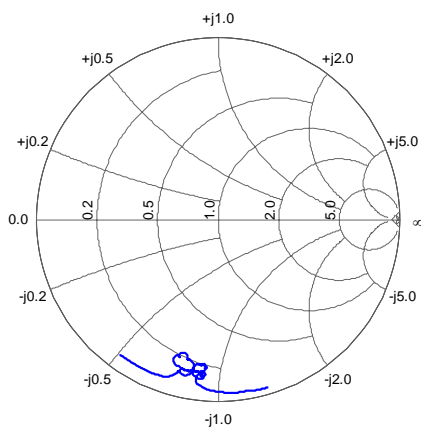
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity($f_0 \pm 11$ MHz)

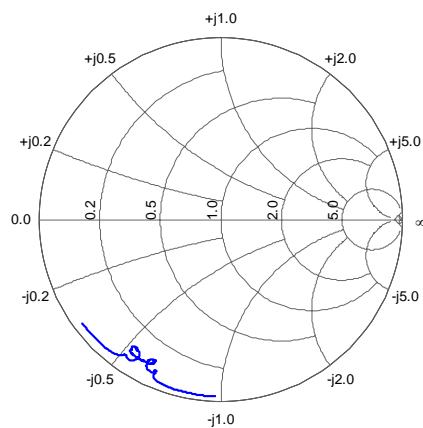


Horizontal: 5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBN13809	
Rev. Date	2008-03-26	
Ver.	1.0	Page 3/3