Features

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

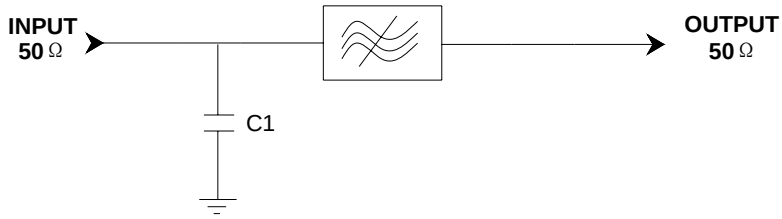
Specifications

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(f0±11MHz)	deg	-	6	8
Group Delay Variation(f0±11MHz)	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.

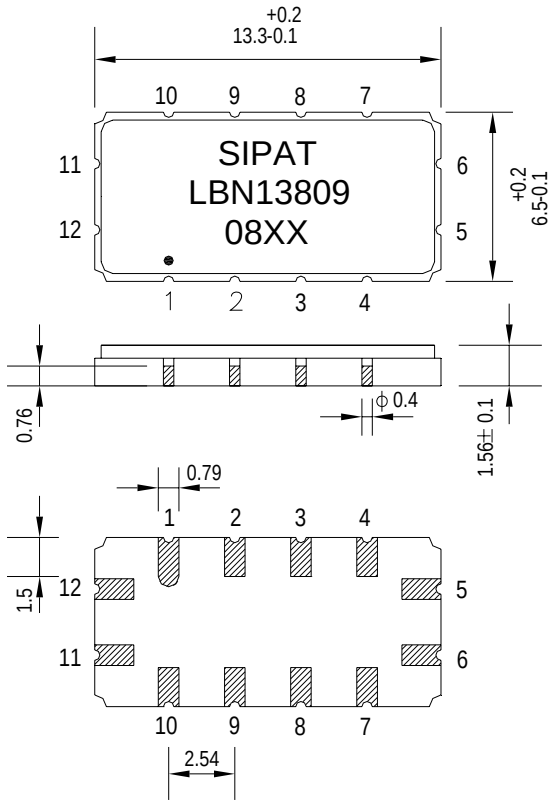
Matching Configuration



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

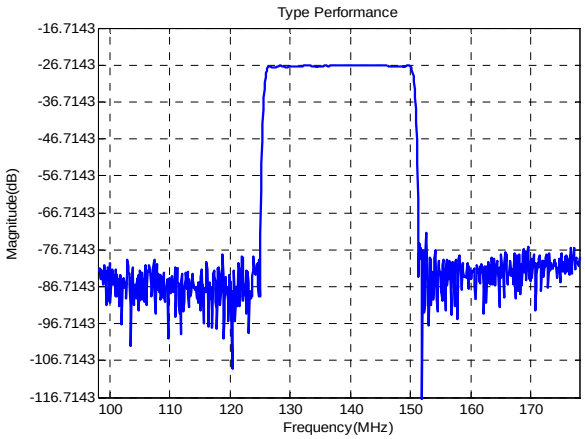
Marking Configuration:

1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) LBN13809: Part Number
4) 08XX: Date Code

Package: SMD13.3*6.5C **Unit: mm**

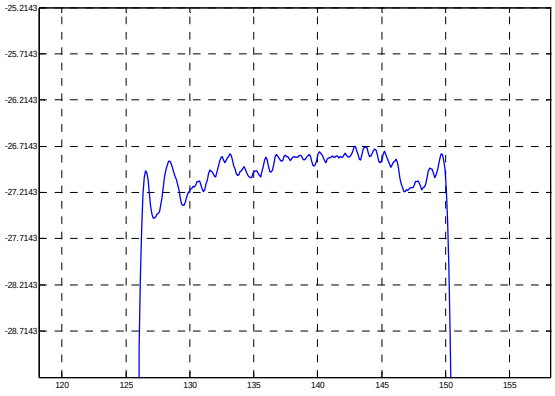
Typical Performance

Frequency Respond



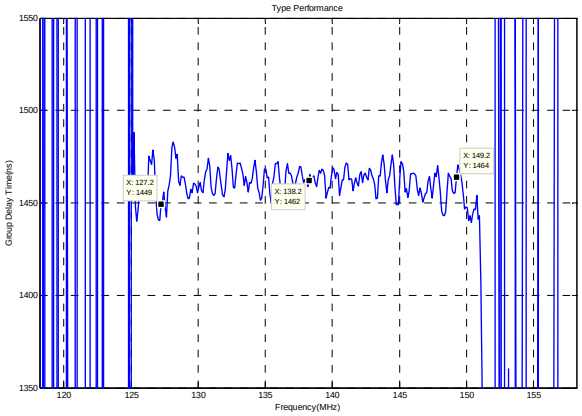
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



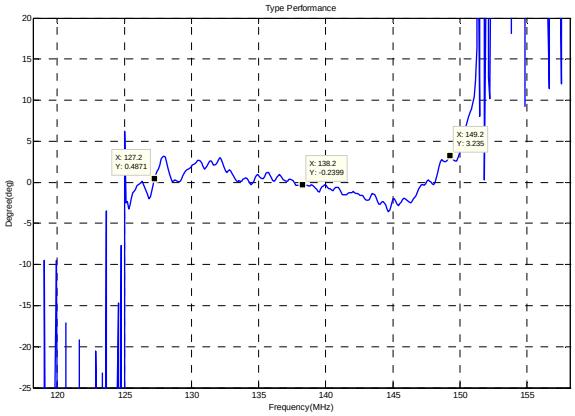
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±11MHz)



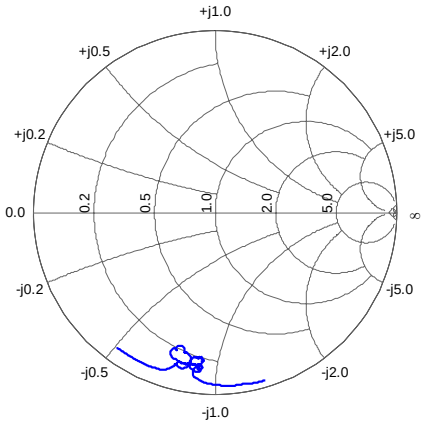
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±11MHz)



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

Smith Chart S11



Smith Chart S22

