Features

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

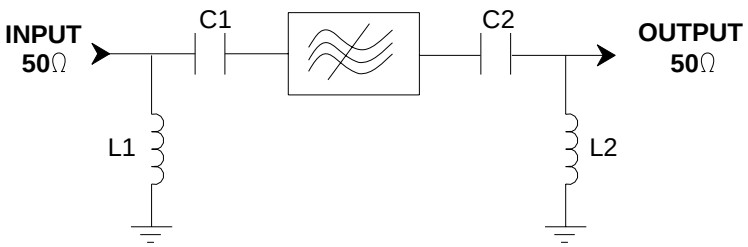
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	844	-
Insertion Loss(f0±4.75MHz)	dB	-	30.4	32
1.5 dB Bandwidth	MHz	-	9.12	-
3 dB Bandwidth	MHz	9.35	9.41	-
35 dB Bandwidth	MHz	-	11.06	11.5
40 dB Bandwidth	MHz	-	11.16	-
Passband Variation(f0±4.75MHz)	dB	-	1.2	1.5
Group Delay Variation(f0±4.75MHz)	nsec	-	150	300
Absolute Delay	usec	-	1.88	-
Ultimate Rejection(f0±10MHz)	dB	40	45	-
Material Temperature coefficient	KHz/°C	0.84		
Substrate Material	-	Qz		
Ambient Temperature	°C	25		
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1C		
Package Size	SMD13.3*6.5			

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



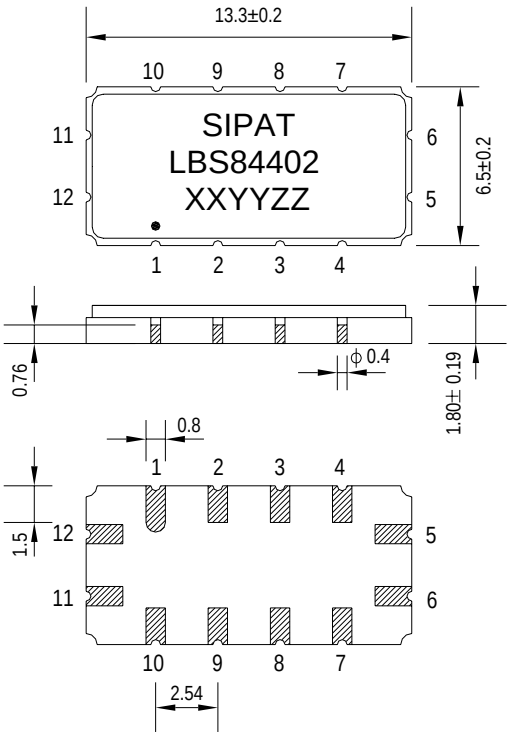
L1=6.8nH L2=3.9nH

C1=C2=6.8pF

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

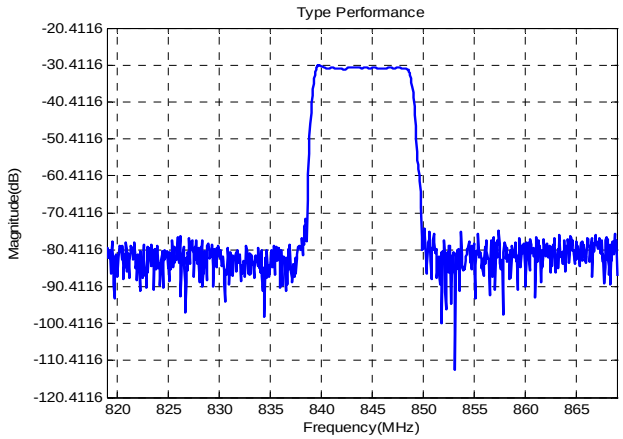
Marking Configuration:

1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) LBS84402: Part Number
4) XXYY: Date(Year/month)
5) ZZ: Identified Code

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

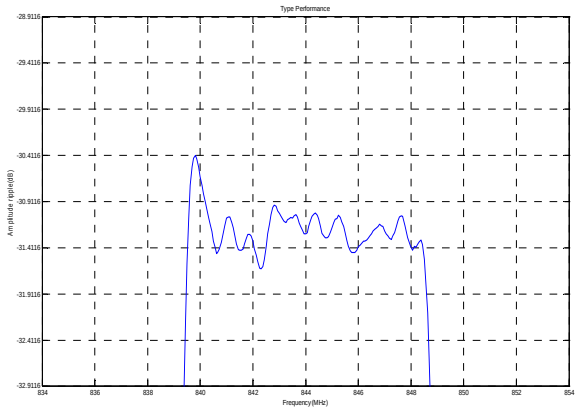
Typical Performance

Frequency Response



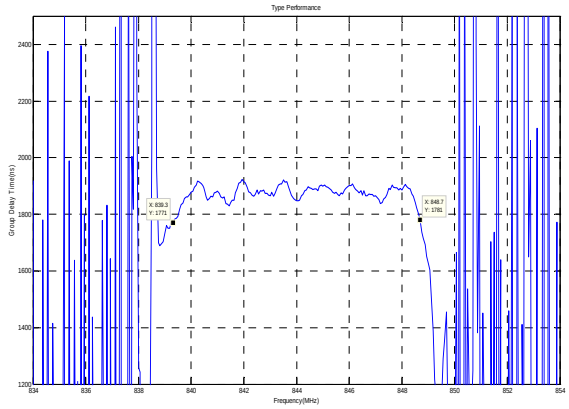
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



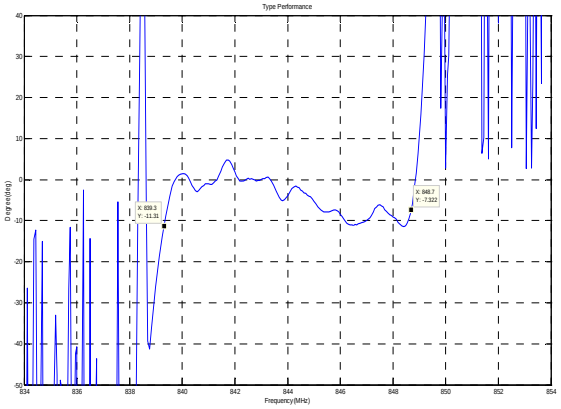
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±4.7MHz)



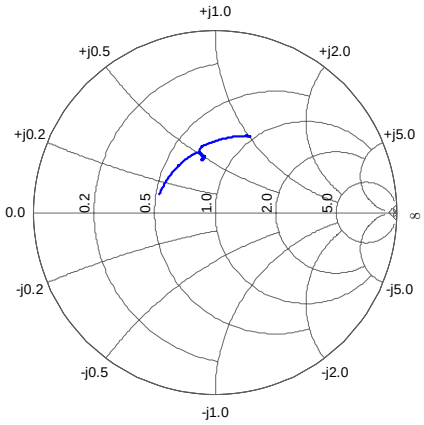
Horizontal: 2MHz/Div Vertical: 200ns/Div

Phase Linearity(f0±4.7MHz)



Horizontal: 2MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22

