Features

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

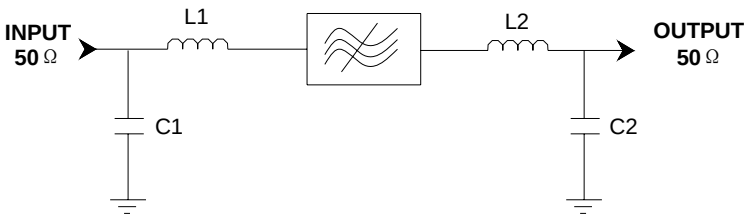
Specifications

Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	114	-
Insertion Loss		dB	-	10	11.5
1 dB Bandwidth		MHz	3	3.5	-
3 dB Bandwidth		MHz	4	4.26	-
40 dB Bandwidth		MHz	-	6.84	9
Passband Variation(f0±1.5MHz)		dB	-	0.5	-
Group Delay Variation(f0±1.5MHz)		nsec	-	70	100
Phase Linearity(f0±1.5MHz)		deg	-	4	5
Absolute Delay		usec	-	1.27	-
Ultimate Rejection	*f0-4.5MHz*	dB	40	44	-
	f0+4.5MHz	dB	40	42	-
Material Temperature coefficient		KHz/°C	-2.05		
Substrate Material		-	112LT		
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*6.5A			

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.

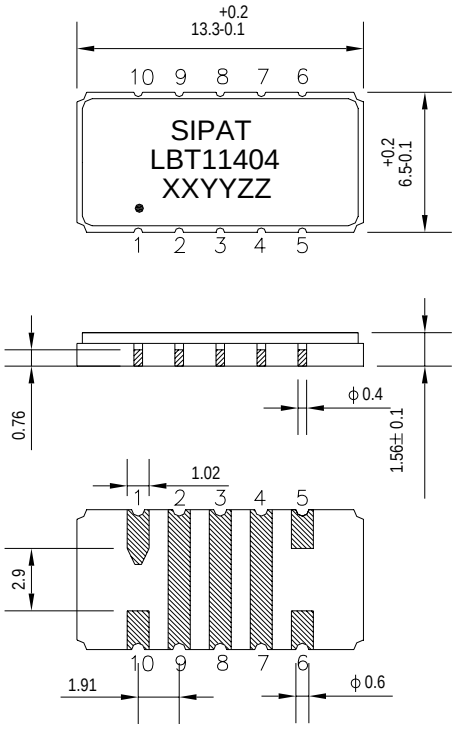
Matching Configuration



L1=(180+18)nH L2=(180+12)nH
C1=C2=47pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input	10
Output	5
Ground	All Others

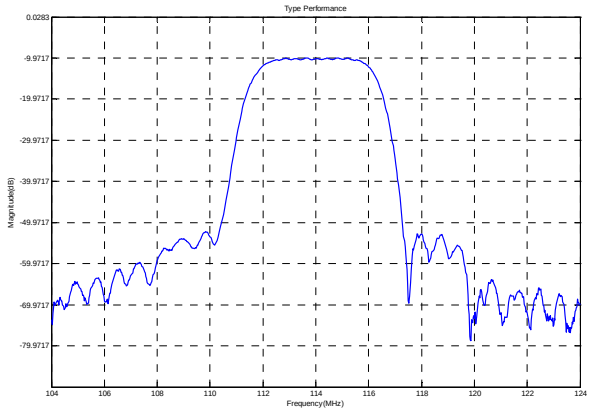
Marking Configuration:

1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) LBT11404: Part Number
4) XXYYZZ: Date Code

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

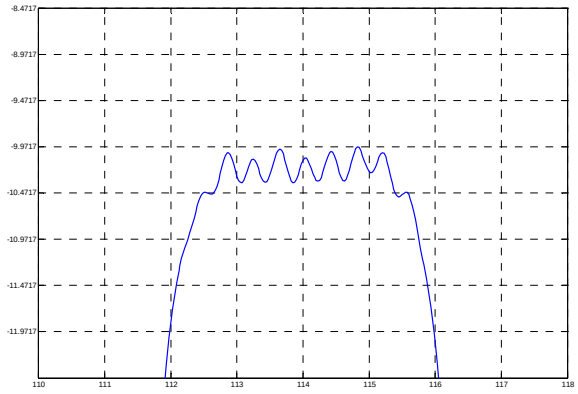
Typical Performance

Frequency Respond



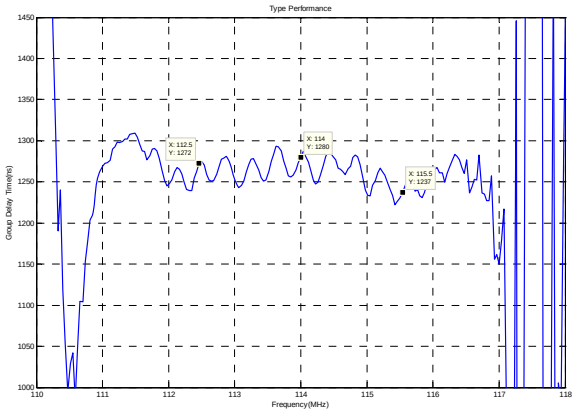
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Respond



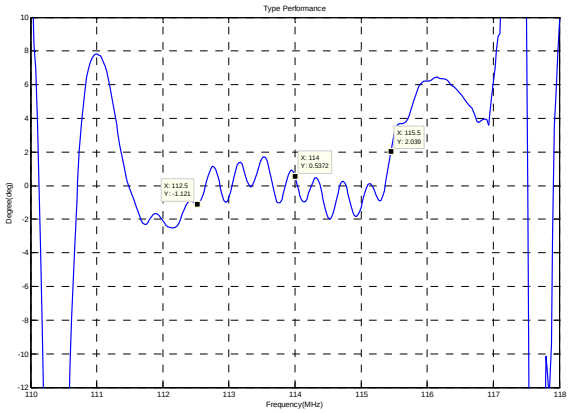
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±1.5MHz)



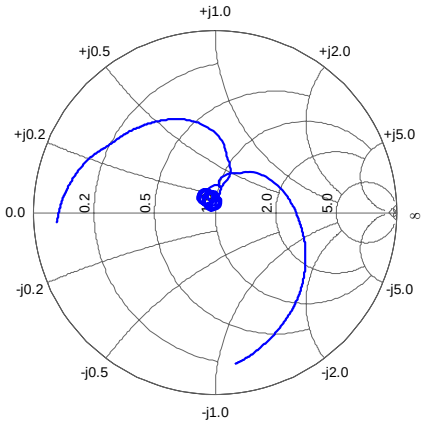
Horizontal: 1MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±1.5MHz)



Horizontal: 1MHz/Div Vertical: 2deg/Div

Smith Chart S11



Smith Chart S22

