Features

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

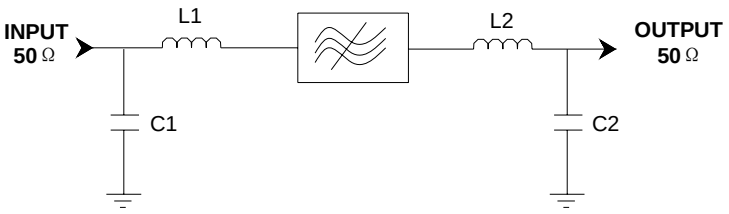
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	114.85	115	115.15
Insertion Loss	dB	-	34.2	-
1.5 dB Bandwidth	MHz	14.95	15.04	-
3 dB Bandwidth	MHz	15	15.15	-
30 dB Bandwidth	MHz	-	15.72	15.85
40 dB Bandwidth	MHz	-	15.8	-
45 dB Bandwidth	MHz	-	15.83	-
50 dB Bandwidth	MHz	-	15.88	-
Passband Variation	dB	-	0.8	1.5
Absolute Delay	usec	-	4.47	-
Ultimate Rejection	dB	48	51	-
Material Temperature coefficient	KHz/°C	-2.1		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	DIP3512 (35.0x12.8x4.7mm3)			

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.

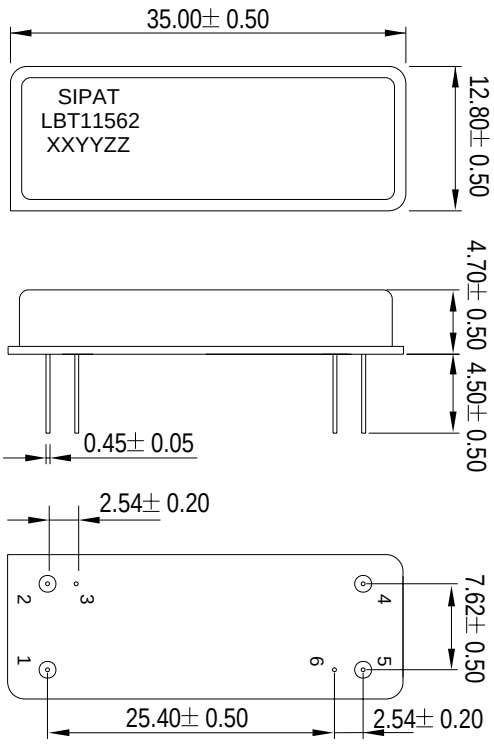
Matching Configuration



L1=68nH L2=82nH
C1=33pF C2=27pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 1
Output 5
Ground All Others

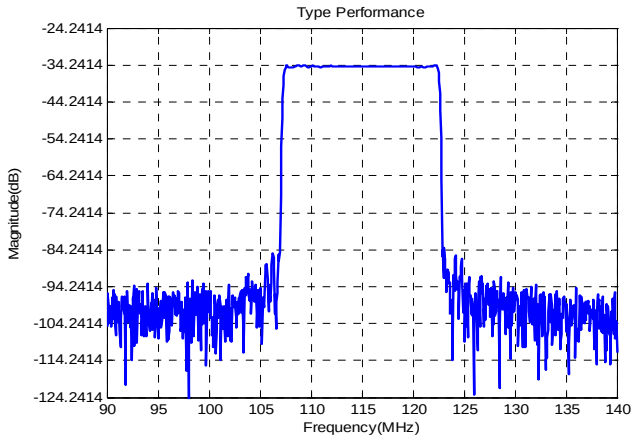
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBT11562: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP3512 **Unit: mm**

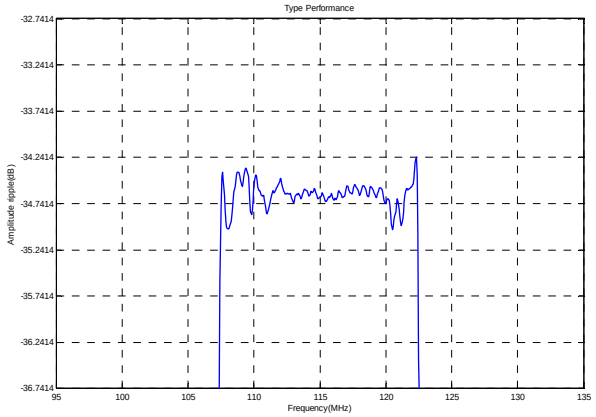
Typical Performance

Frequency Response



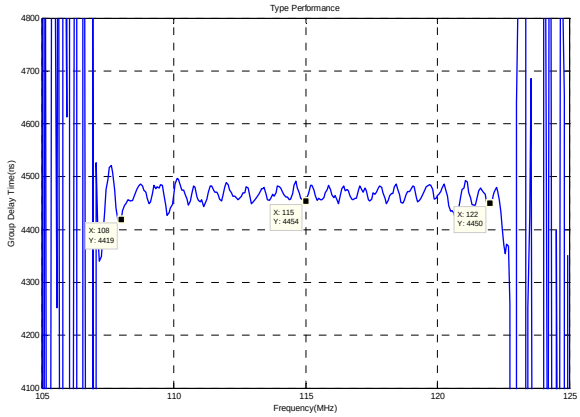
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



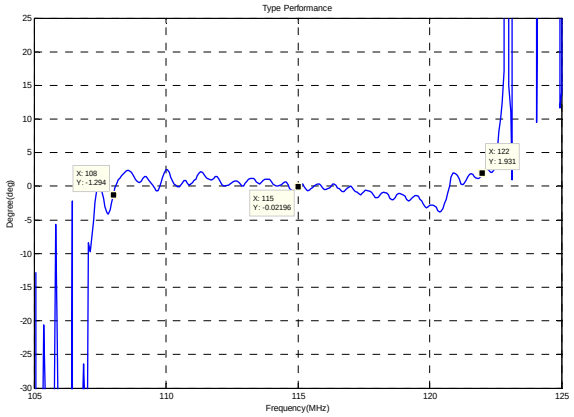
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±7MHz)



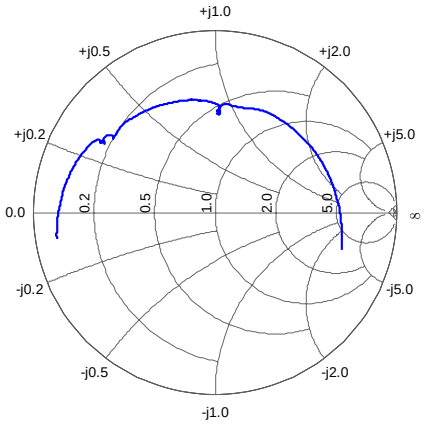
Horizontal: 5MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±7MHz)



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

Smith Chart S11



Smith Chart S22

