



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	114.9	115	115.1
Insertion Loss		dB	-	25.7	28
1.2 dB Bandwidth		MHz	9.2	9.37	-
3 dB Bandwidth		MHz	-	9.57	-
35 dB Bandwidth		MHz	-	10.36	10.4
Passband Variation		dB	-	0.9	1.2
Group Delay Variation($f_0\pm 4.5\text{MHz}$)		nsec	-	110	200
Absolute Delay		usec	-	2.24	2.4
Ultimate Rejection	$f_0\pm 5.2\text{MHz}$	dB	30	31	-
	$f_0\pm 6\text{MHz}$	dB	40	41	-
	$f_0\pm 10\text{MHz}$	dB	40	44	-
	$f_0\pm 15\text{MHz}$	dB	40	45	-
Material Temperature coefficient		KHz/°C	-2.07		
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:

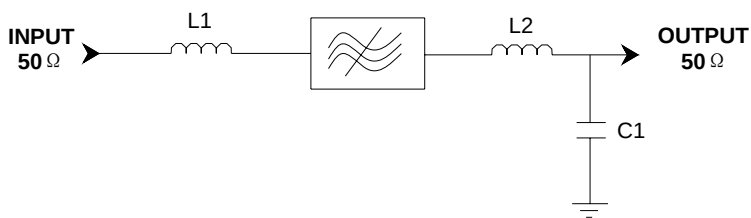
- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
- This is the optimum impedance in order to achieve the performance show.



SIPAT Co., Ltd.
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Part Number	LBT11567	
Rev. Date	2011-03-29	
Ver.	1.0	Page 1/3

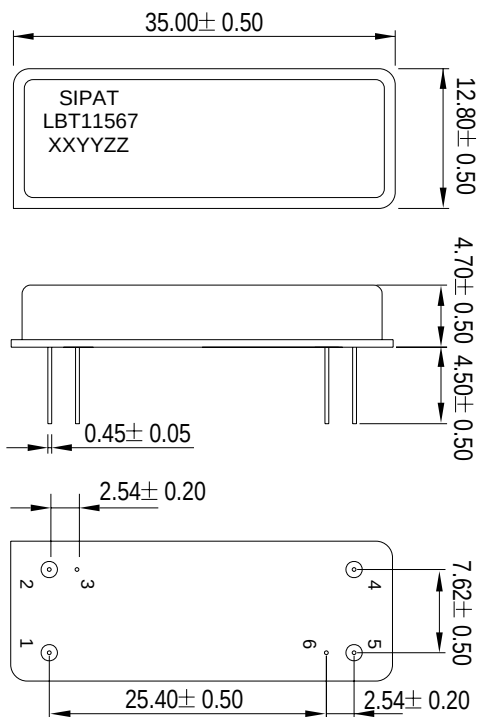
Matching Configuration



L1=68nH L2=56nH
C1=33pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input 1
Output 5
Ground 2,3,4,6

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBT11567: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



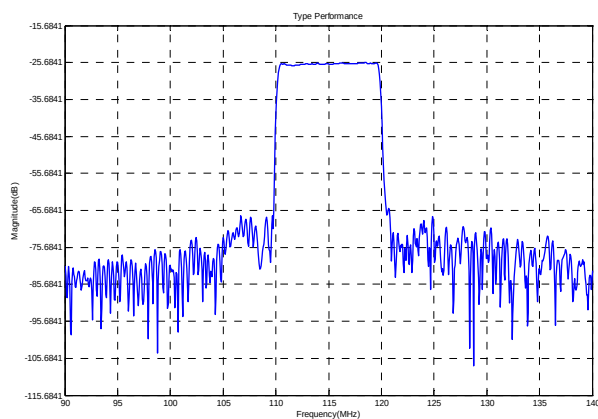
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Typical Performance

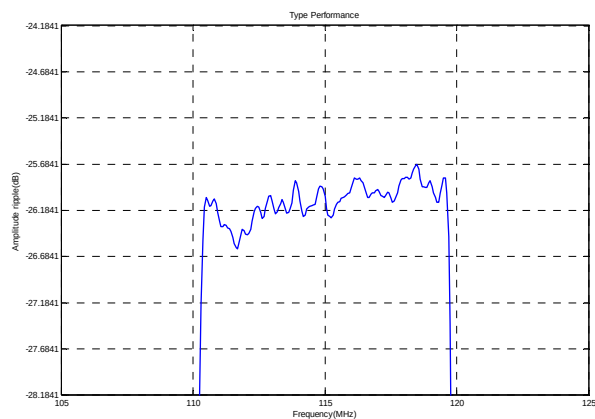
Frequency Response



Horizontal: 5MHz/Div

Vertical: 10dB/Div

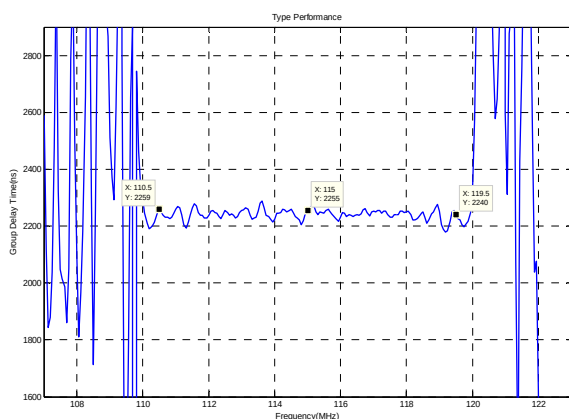
Passband Response



Horizontal: 5MHz/Div

Vertical: 0.5dB/Div

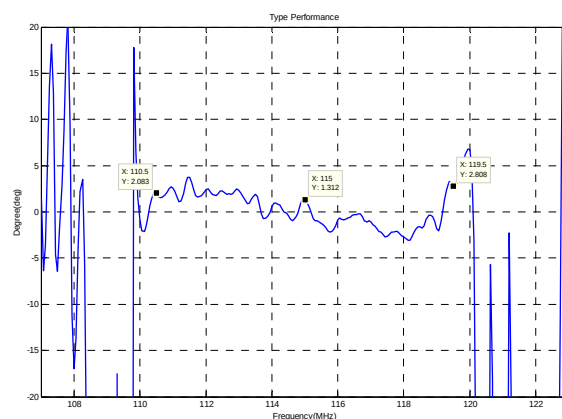
Group Delay Variation($f_0 \pm 4.5$ MHz)



Horizontal: 2MHz/Div

Vertical: 200ns/Div

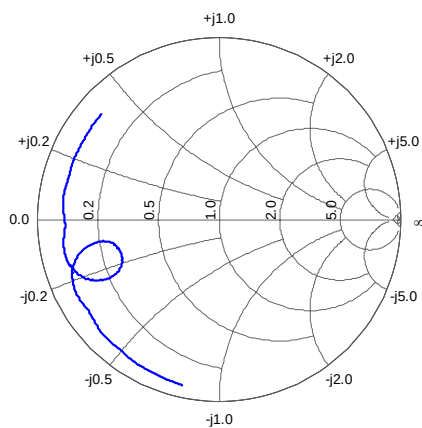
Phase Linearity($f_0 \pm 4.5$ MHz)



Horizontal: 2MHz/Div

Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22

