



Features

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

Specifications

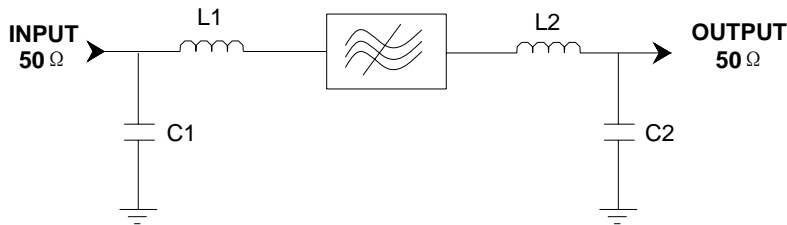
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	119.85	120	120.15
Insertion Loss	dB	-	31.7	33
1 dB Bandwidth	MHz	7.4	7.42	-
25 dB Bandwidth	MHz		8.17	8.2
30 dB Bandwidth	MHz		8.22	8.4
35 dB Bandwidth	MHz		8.26	8.8
40 dB Bandwidth	MHz	-	8.3	9
Passband Variation	dB	-	0.8	1
Absolute Delay	usec	-	3.49	3.5
Group Delay Variation($f_0 \pm 3.7\text{MHz}$)	nsec		90	150
Ultimate Rejection	dB	40	50	-
Material Temperature coefficient	KHz/°C	-2.16		
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	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.

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBT12035	
		Rev. Date	2008-08-19	
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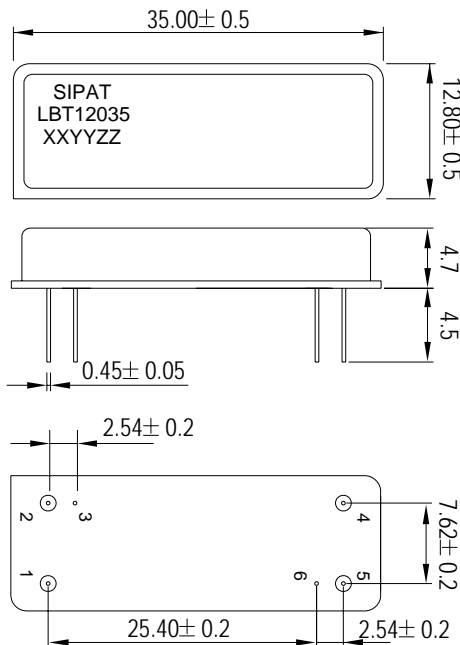
Matching Configuration



L1=56nH L2=47nH
C1=33pF C2=39pF
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) LBT12035: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



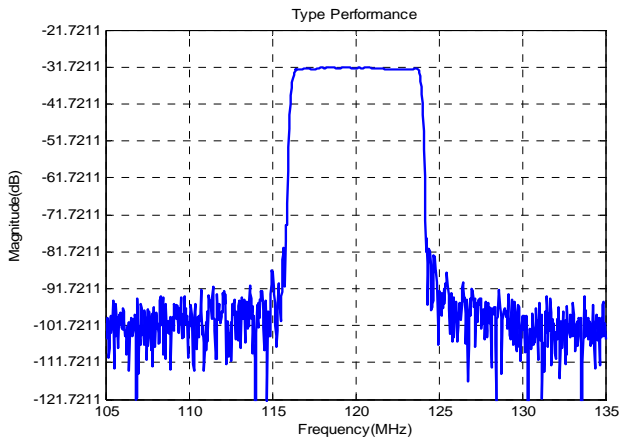
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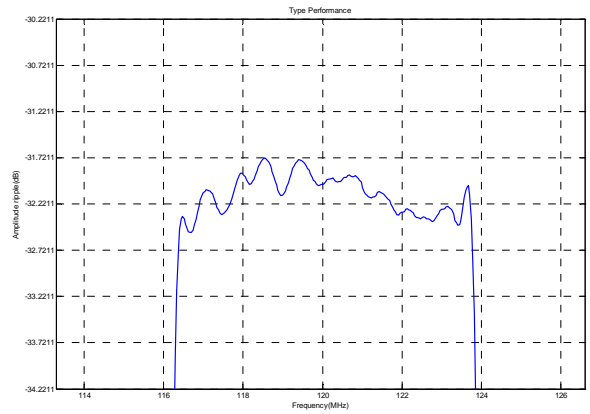
Typical Performance

Frequency Respond



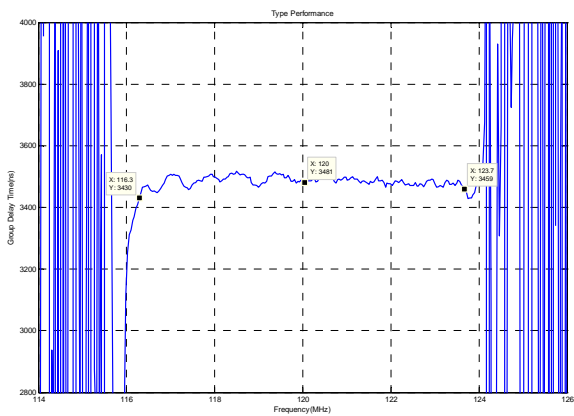
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



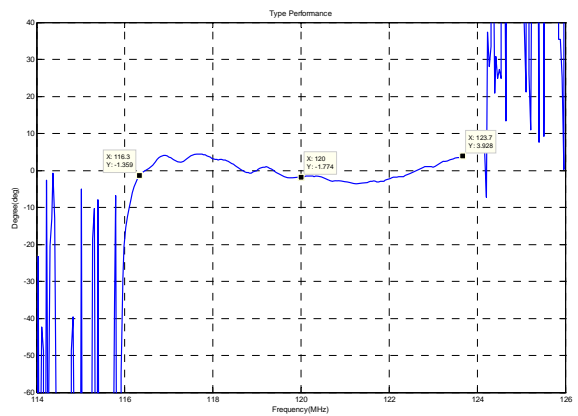
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±3.4MHz)



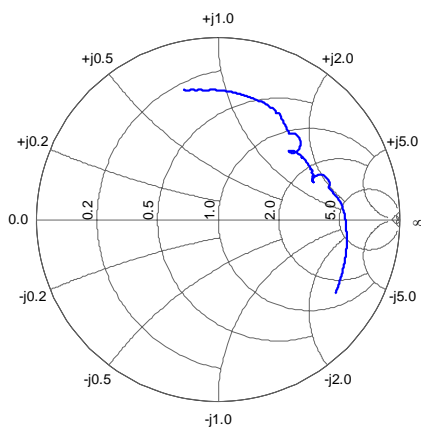
Horizontal: 2MHz/Div Vertical: 200ns/Div

Phase Linearity(f0±3.4MHz)

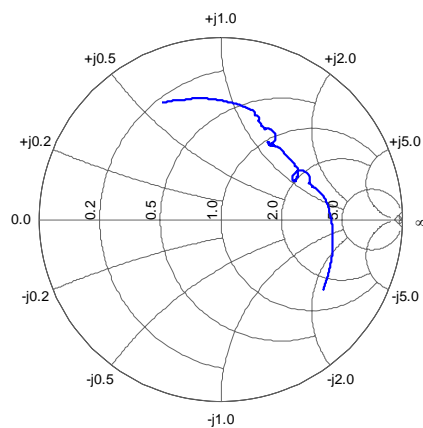


Horizontal: 2MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22



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