



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	-	28	29
1.5 dB Bandwidth	MHz	21.6	21.65	-
25 dB Bandwidth	MHz	-	22.35	22.4
30 dB Bandwidth	MHz	-	22.41	22.65
35 dB Bandwidth	MHz	-	22.47	23
40 dB Bandwidth	MHz	-	22.53	23.2
Passband Variation	dB	-	0.5	1.3
Absolute Delay	usec	-	3.08	3.1
Ultimate Rejection	dB	40	53	-
Material Temperature coefficient	KHz/°C	-11.28		
Substrate Material	-	YZ LN		
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:

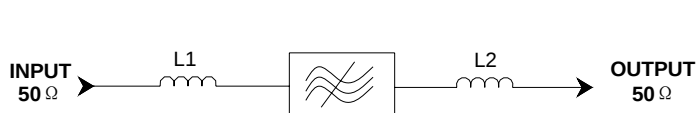
- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing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



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Part Number	LBN12032		
Rev. Date	2008-07-22		
Ver.	2.0	Page	1/3

Matching Configuration

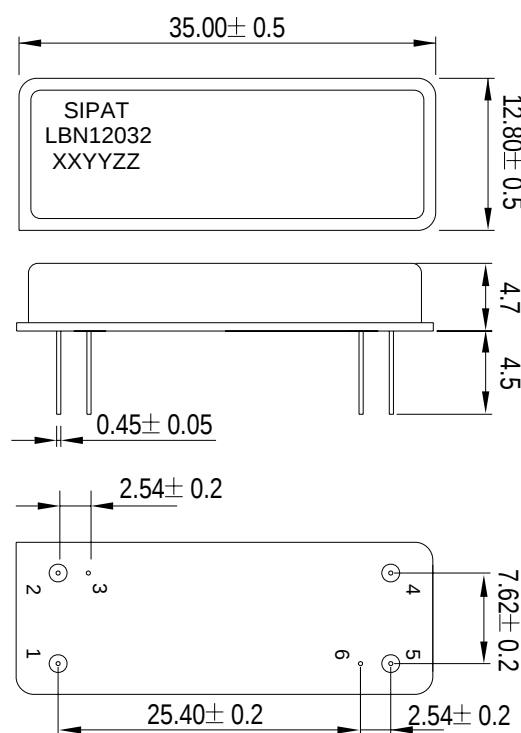


$$L1 = L2 = 33\text{nH}$$

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) LBN12032: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



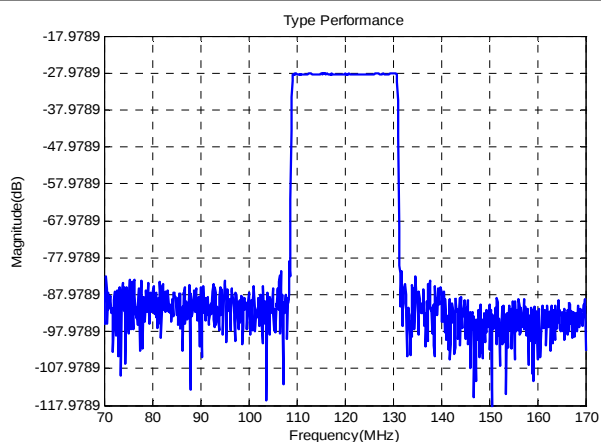
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Typical Performance

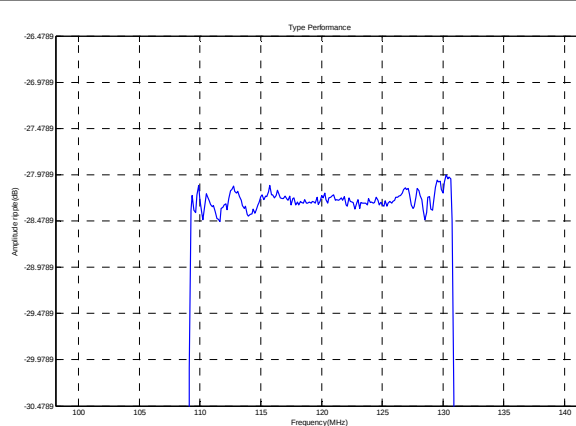
Frequency Respond



Horizontal: 10MHz/Div

Vertical: 10dB/Div

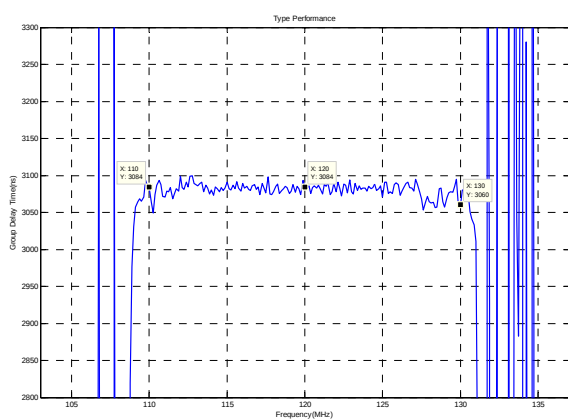
Passband Respond



Horizontal: 5MHz/Div

Vertical: 0.5dB/Div

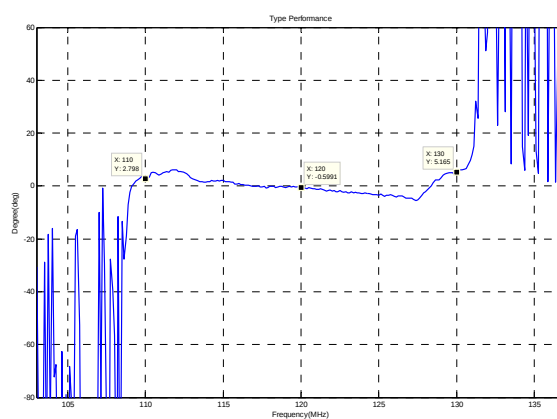
Group Delay Variation($f_0 \pm 10\text{MHz}$)



Horizontal: 5MHz/Div

Vertical: 50ns/Div

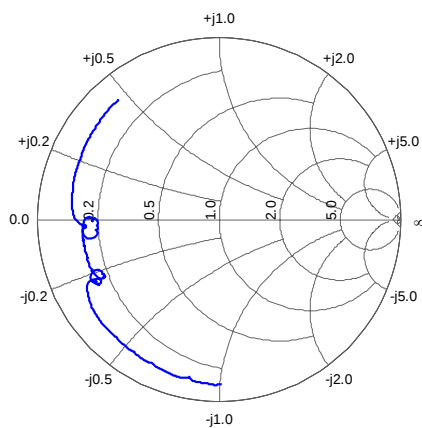
Phase Linearity($f_0 \pm 10\text{MHz}$)



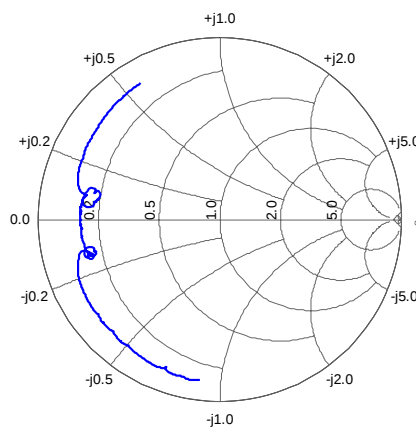
Horizontal: 5MHz/Div

Vertical: 20deg/Div

Smith Chart S11



Smith Chart S22



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