



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	99.5	100	100.5
Insertion Loss	dB	-	30	35
1.5 dB Bandwidth	MHz	29	29.08	-
3 dB Bandwidth	MHz	-	29.27	-
40 dB Bandwidth	MHz	-	30.07	30.2
Passband Variation	dB	-	1.3	1.5
Absolute Delay	usec	-	3.26	-
Ultimate Rejection	dB	48	50	-
Material Temperature coefficient	KHz/°C	-9.4		
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	-	1		
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	LBN10013	
		Rev. Date	2007-09-28	
		Ver.	1.0	Page 1/3

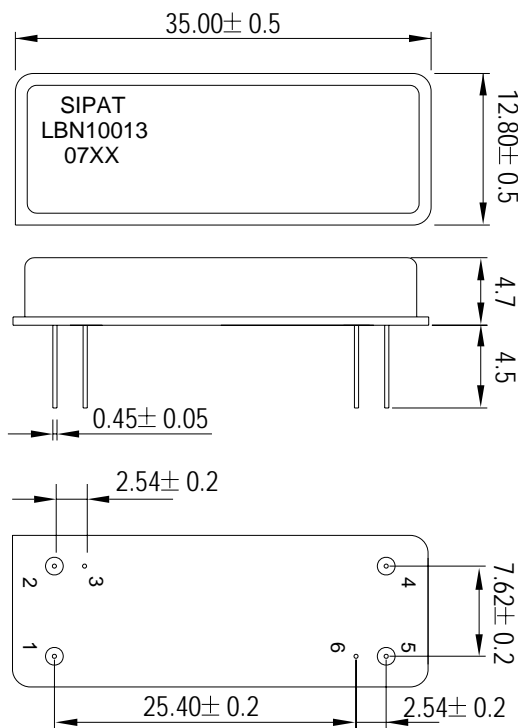
Matching Configuration



L1=82nH L2=47nH
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) LBN10013: Part Number
3) 07XX: Date Code

Package: DIP3512

Unit: mm



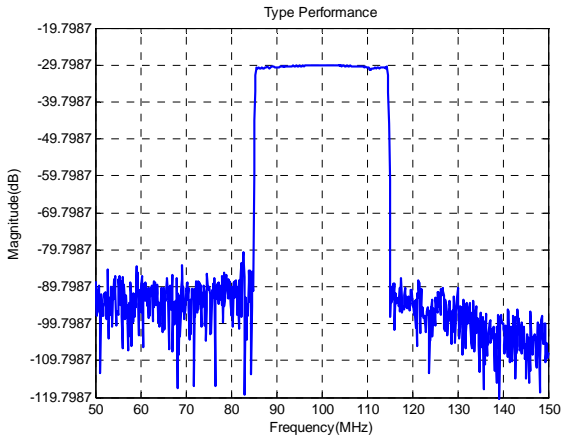
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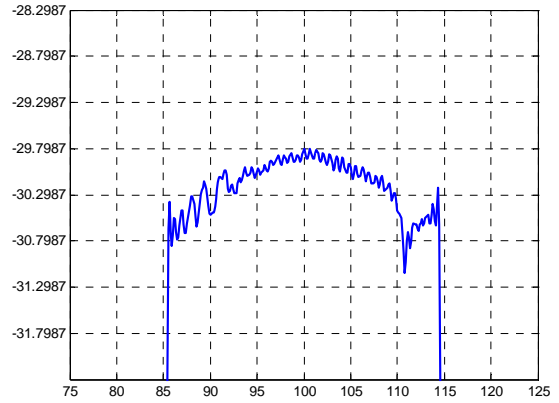
Typical Performance

Frequency Respond



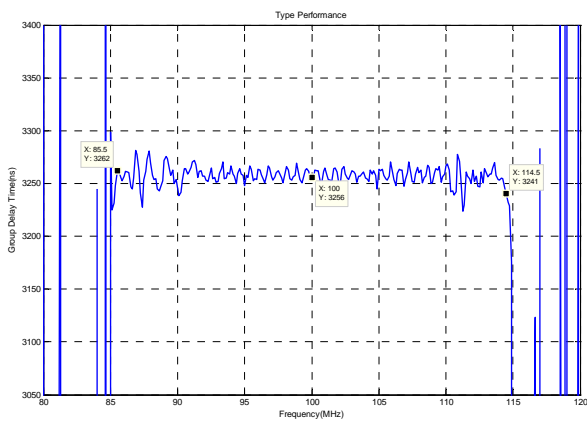
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



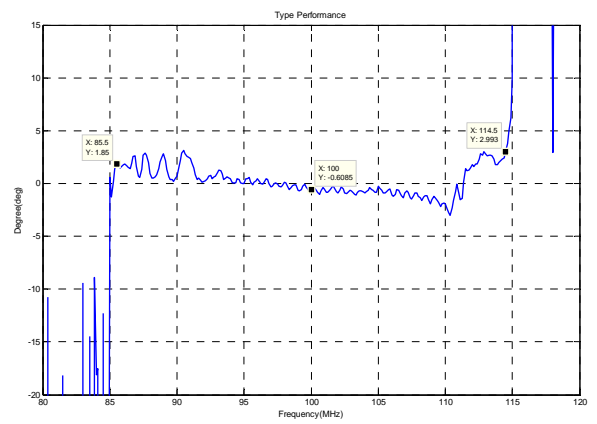
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation($f_0 \pm 14.5\text{MHz}$)



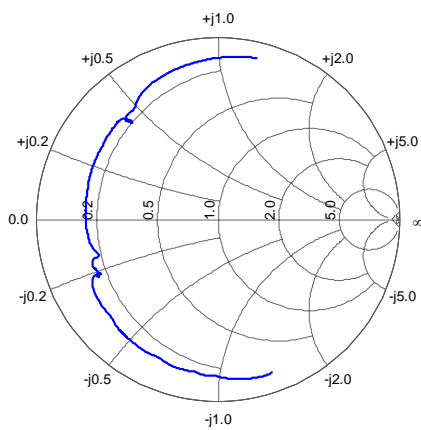
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity($f_0 \pm 14.5\text{MHz}$)

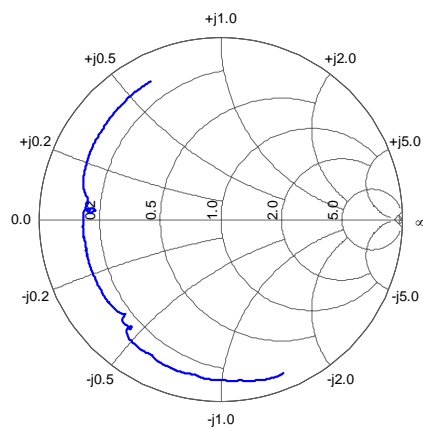


Horizontal: 5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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