



### Features


- ◇ For IF SAW filter
- ◇ High attenuation
- ◇ Single-ended operation
- ◇ Dual In-line Package

### Specifications

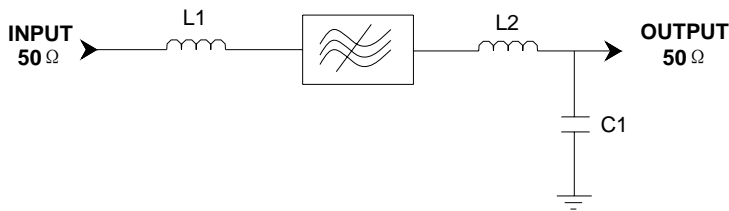
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.9	70	70.1
Insertion Loss	dB	-	22.8	26
3 dB Bandwidth	MHz	19.4	19.47	-
40dB Bandwidth	MHz	-	20.37	-
50 dB Bandwidth	MHz	-	20.48	20.6
Passband Variation	dB	-	0.9	1.3
Absolute Delay	usec	-	3.15	3.3
Ultimate Rejection	dB	50	52	-
Material Temperature coefficient	KHz/°C	-5.74		
Substrate Material	-	128LN		
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.

	<b>SIPAT Co., Ltd.</b> ( CETC No.26 Research Institute ) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBN07077	
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		Ver.	2.0	Page 1/3

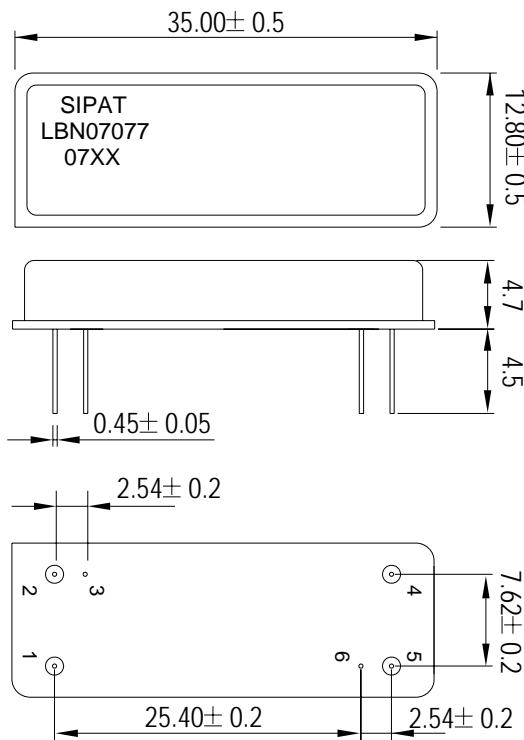
### Matching Configuration



**L1=L2=180nH**  
**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 All Others

#### Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBN07077: Part Number
- 4) 07XX: Date Code

Package: DIP3512

Unit: mm

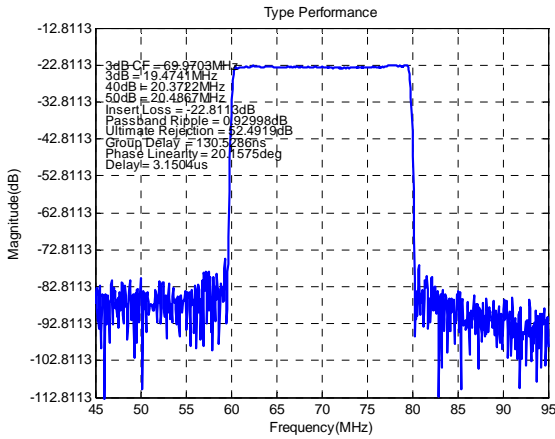


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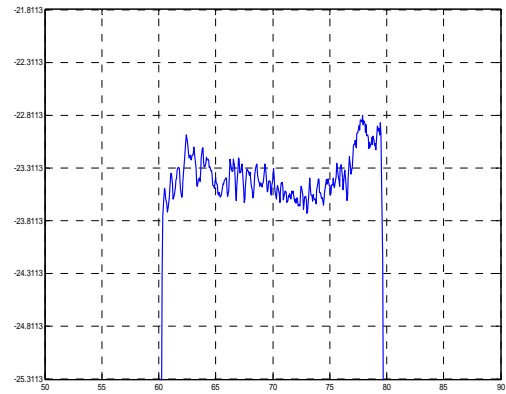
Typical Performance

Frequency Respond



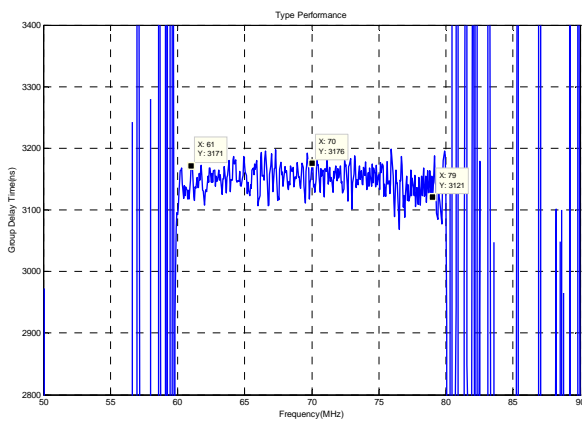
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



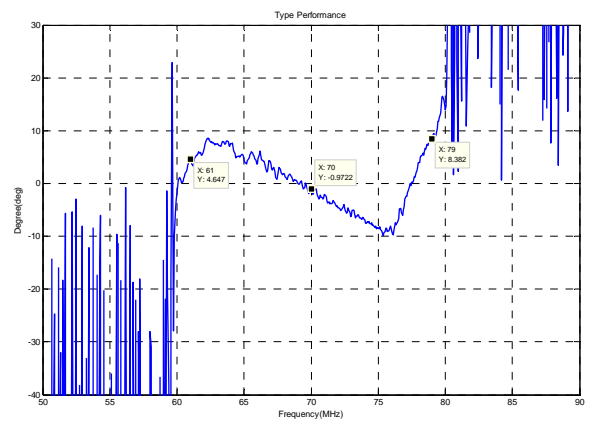
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±9MHz)



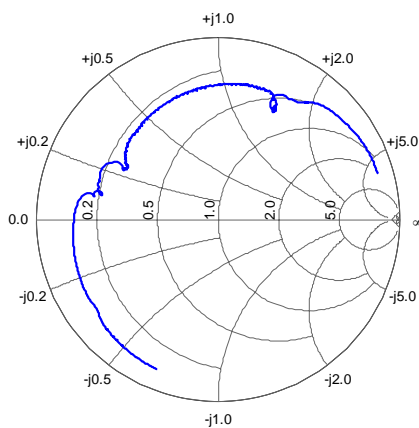
Horizontal: 5MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±9MHz)

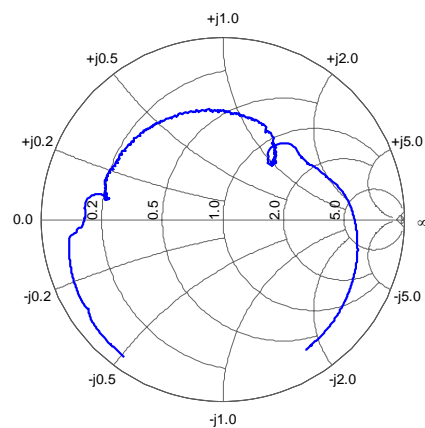


Horizontal: 5MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22



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