



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	89.9	90	90.1
Insertion Loss	dB	-	21.6	26
1.2 dB Bandwidth	MHz	24.1	24.42	-
3 dB Bandwidth	MHz	-	24.83	-
12 dB Bandwidth	MHz	-	25.72	26
30 dB Bandwidth	MHz	-	26.45	27
40 dB Bandwidth	MHz	-	26.68	-
50 dB Bandwidth	MHz	-	26.88	28
Passband Variation	dB	-	0.5	1.2
Absolute Delay	usec	-	1.61	2
Ultimate Rejection	dB	50	60	-
Material Temperature coefficient	KHz/°C	-7.38		
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	-	1A		
Package Size	DIP2712 (27.0x12.8x4.7mm3)			

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	LBN09006	
		Rev. Date	2008-10-20	
		Ver.	2.0	Page 1/3

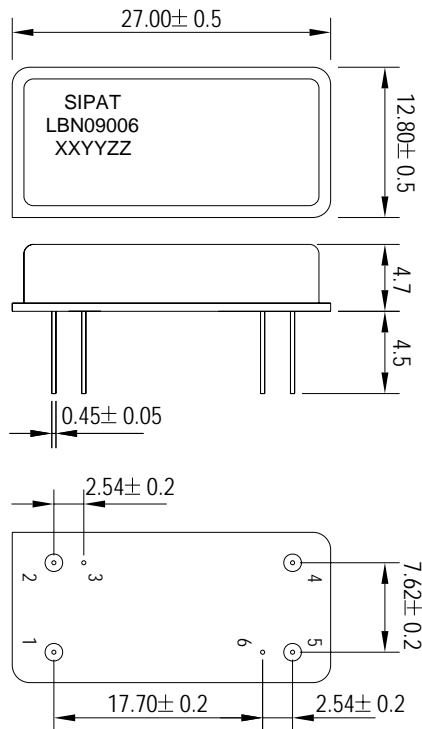
Matching Configuration



$L1 = (100 + 5)nH$ $L2 = 100nH$
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) LBN09006: Part Number
- 3) XXYY: Date (Year/month)
- 4) ZZ: Identified Code

Package: DIP2712

Unit: mm

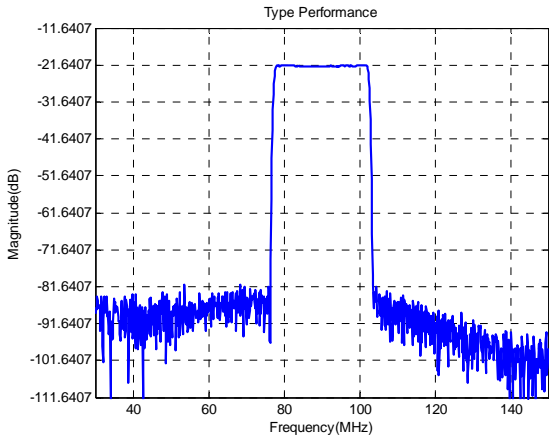


SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBN09006	
Rev. Date	2008-10-20	
Ver.	2.0	Page 2/3

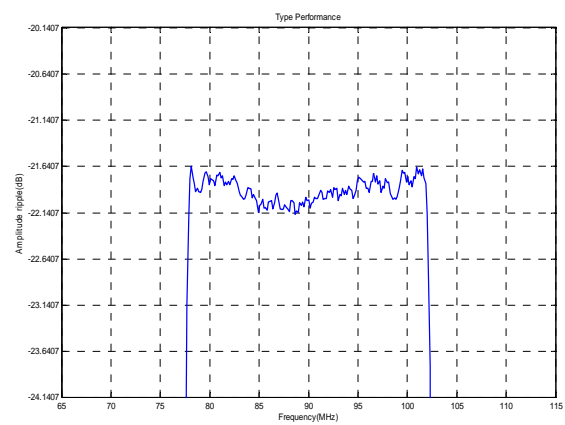
Typical Performance

Frequency Respond



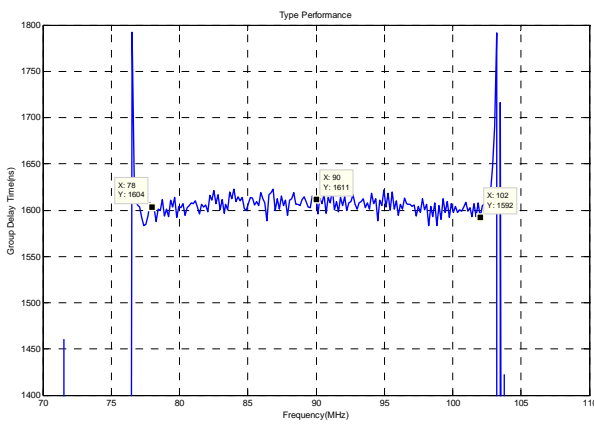
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Respond



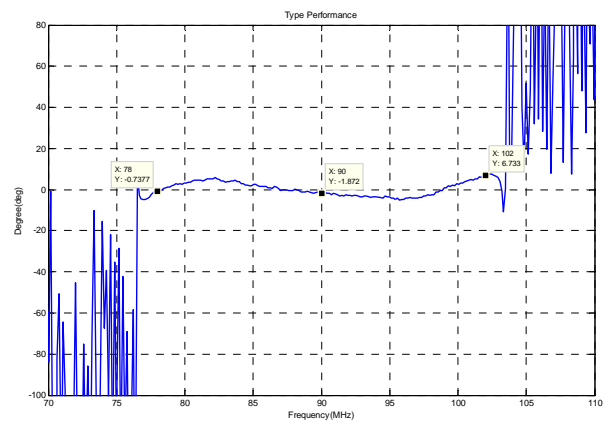
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±12MHz)



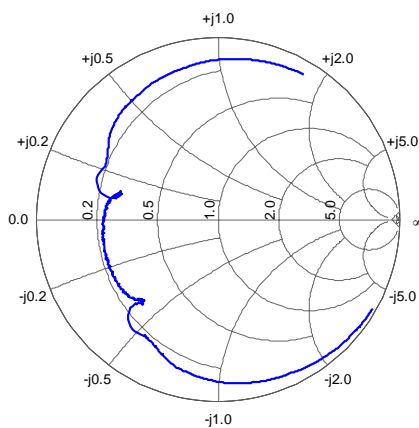
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±12MHz)

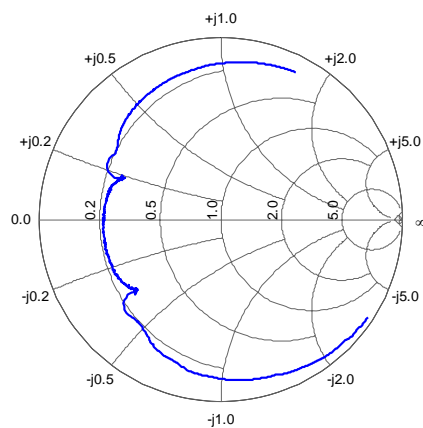


Horizontal: 5MHz/Div Vertical: 20deg/Div

Smith Chart S11



Smith Chart S22



SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBN09006	
Rev. Date	2008-10-20	
Ver.	2.0	Page 3/3