



Features

- ◇ For IF SAW filter
- ◇ High attenuation
- ◇ Single-ended operation
- ◇ No matching required for operation at 50Ω
- ◇ Dual In-line Package
- ◇ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	44	44.05	44.1
Insertion Loss	dB	-	24.4	30
1 dB Bandwidth	MHz	5.3	5.48	-
3 dB Bandwidth	MHz	-	5.72	-
40dB Bandwidth	MHz	-	6.58	6.8
50dB Bandwidth	MHz	-	6.66	-
Passband Variation	dB	-	0.5	0.9
Group Delay($f_0 \pm 2.5\text{MHz}$)	nsec	-	50	80
Absolute Delay	usec	-	3.64	4
Ultimate Rejection	dB	50	51	-
Material Temperature coefficient	KHz/°C	-4.14		
Substrate Material	-	YZ		
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	DIP3825 (38.1x25.4x5.1mm3)			

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	LBN04407	
		Rev. Date	2008-03-14	
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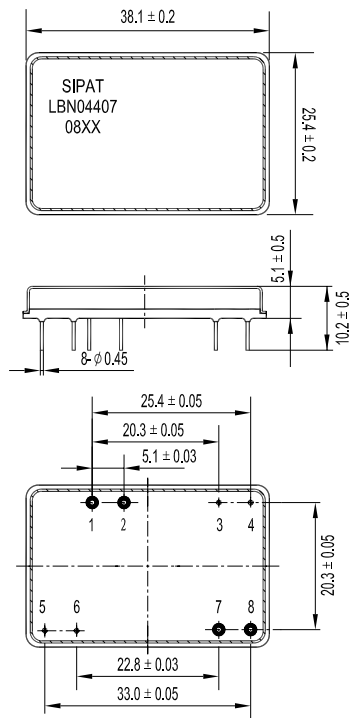
Matching Configuration



Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 1
 Output 8
 Ground 2,7

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBN04407: Part Number
- 3) 08XX: Date Code

Package: DIP3825

Unit: mm

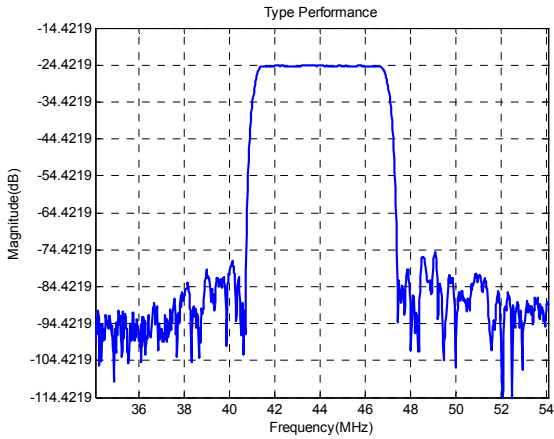


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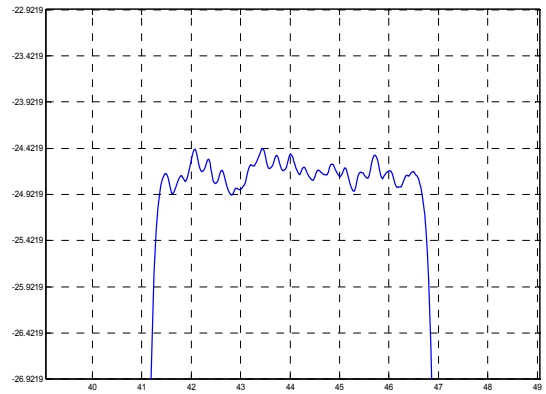
Typical Performance

Frequency Respond



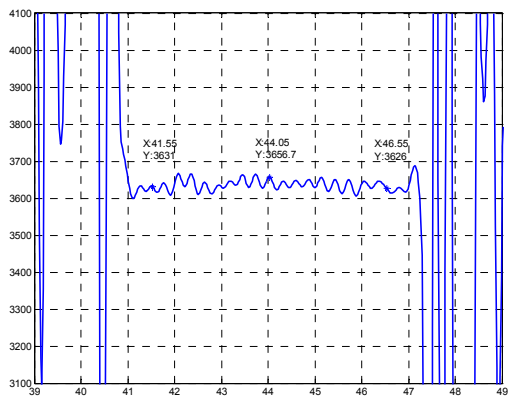
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Respond



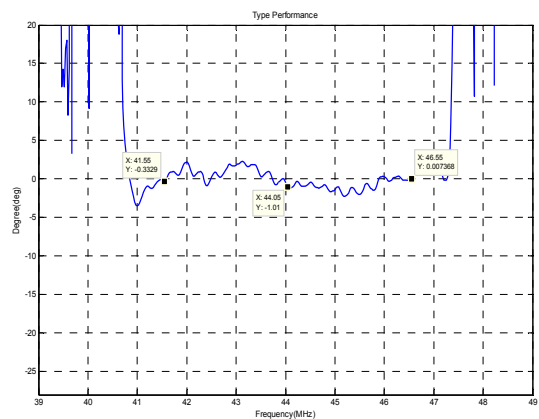
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±2.5MHz)



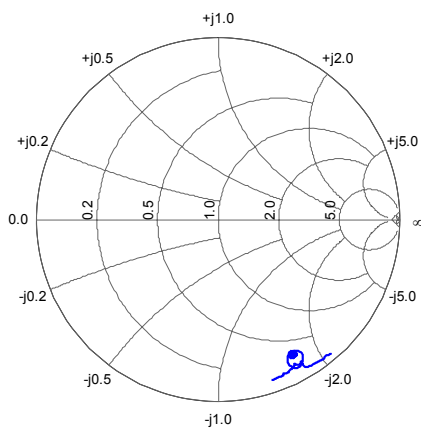
Horizontal: 1MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±2.5MHz)

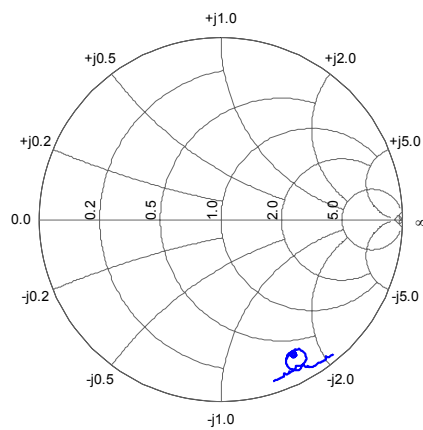


Horizontal: 1MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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