



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	114.95	115	115.05
Insertion Loss	dB	-	23.8	25
1 dB Bandwidth	MHz	1.23	1.233	-
3 dB Bandwidth	MHz	-	1.43	-
40 dB Bandwidth	MHz	-	2.22	2.3
Passband Variation	dB	-	0.4	0.7
Absolute Delay	usec	-	3.86	4
Ultimate Rejection	dB	50	58	-
Material Temperature coefficient	KHz/°C	0.115		
Substrate Material	-	Qz		
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:

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	LBS11508	
		Rev. Date	2008-03-31	
		Ver.	1.1	Page

Matching Configuration

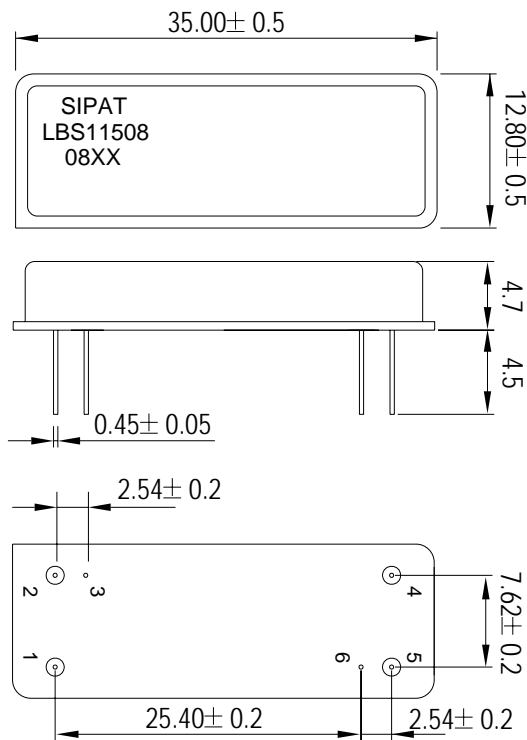


L1=68nH

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) LBS11508: Part Number
3) 08XX: Date Code

Package: DIP3512

Unit: mm



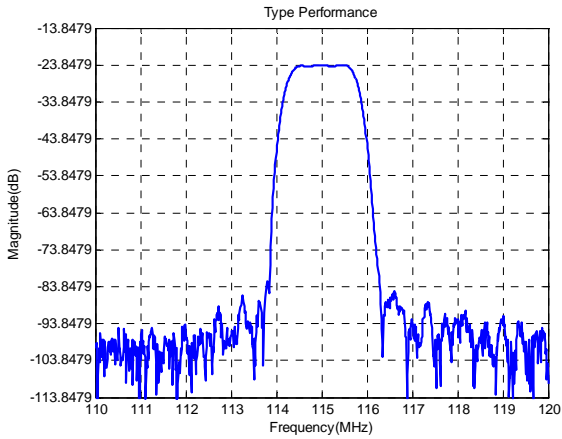
SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBS11508	
Rev. Date	2008-03-31	
Ver.	1.1	Page 2/3



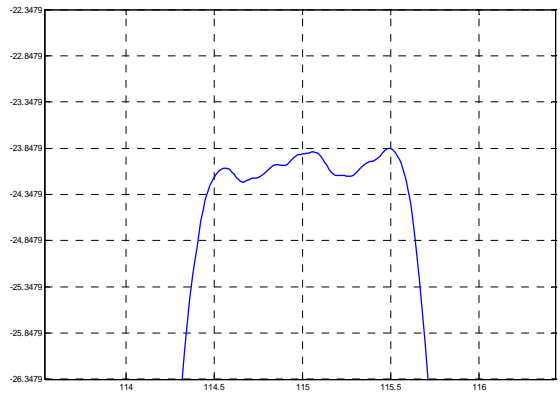
Typical Performance

Frequency Respond



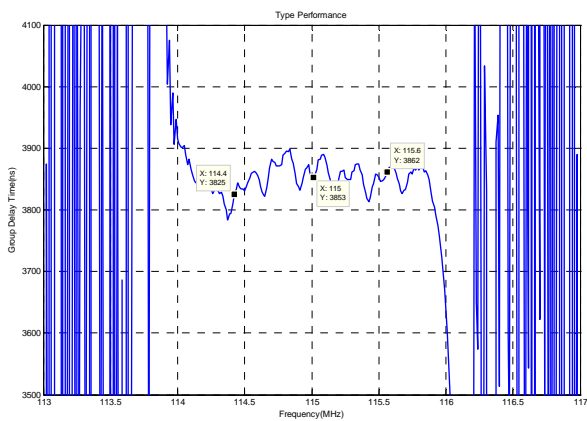
Horizontal: 1MHz/Div Vertical: 10dB/Div

Passband Respond



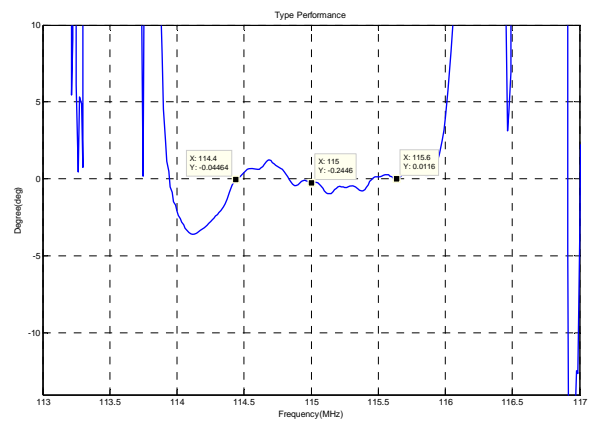
Horizontal: 0.5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation($f_0 \pm 0.6$ MHz)



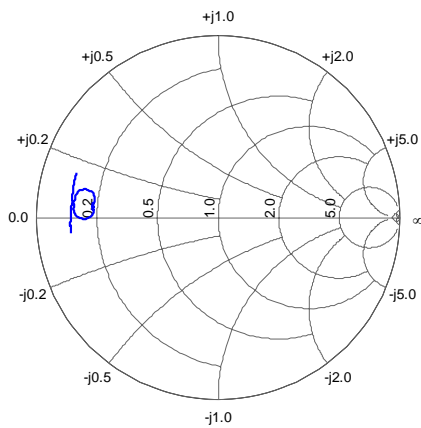
Horizontal: 0.5MHz/Div Vertical: 100ns/Div

Phase Linearity($f_0 \pm 0.6$ MHz)

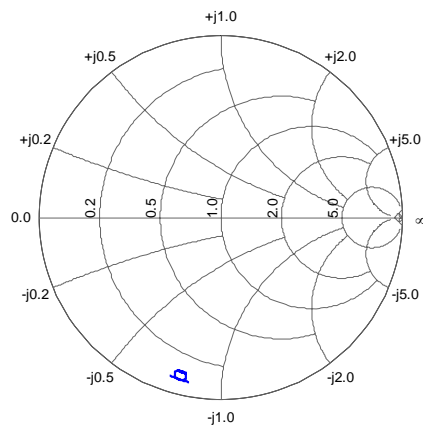


Horizontal: 0.5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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

Part Number	LBS11508	
Rev. Date	2008-03-31	
Ver.	1.1	Page 3/3