



Features

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

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	106.8	107	107.2
Insertion Loss	dB	-	24	25
1.5 dB Bandwidth	MHz	20	20.45	-
20 dB Bandwidth	MHz	-	21.78	21.8
40 dB Bandwidth	MHz	-	22.27	-
50 dB Bandwidth	MHz	-	22.45	23
Passband Variation	dB	-	0.8	1
Absolute Delay	usec	-	1.75	2.5
Ultimate Rejection($f_0 \pm$ MHz)	dB	50	55	-
Material Temperature coefficient	KHz/°C	-8.77		
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	DIP2212 (22.2x12.8x4.7mm ³)			

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.



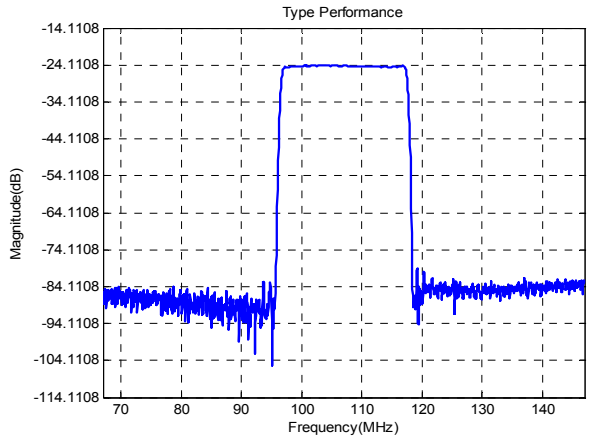
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Part Number	LBN10706		
Rev. Date	2008-08-01		
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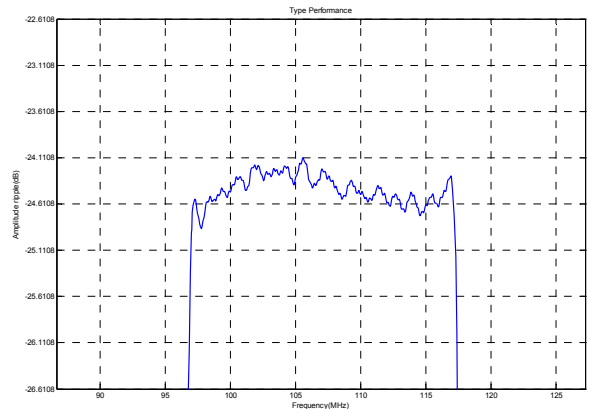
Typical Performance

Frequency Respond



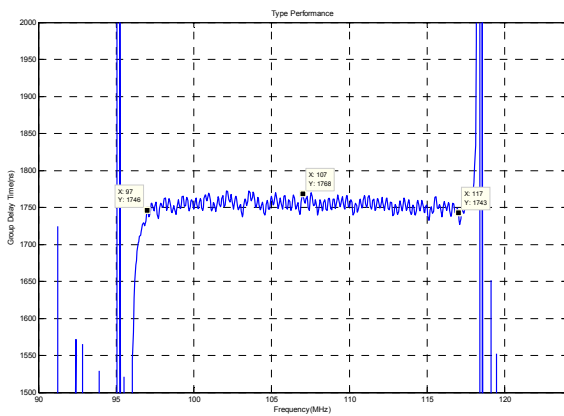
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



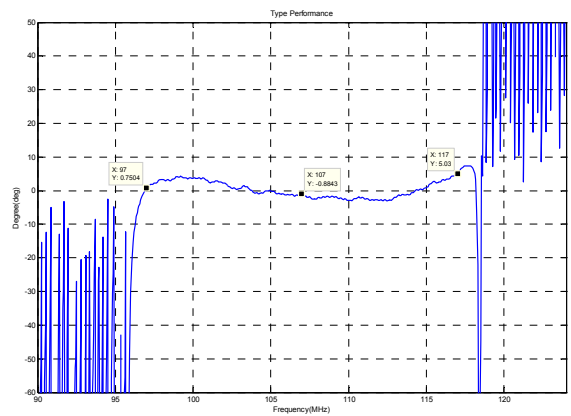
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±10MHz)



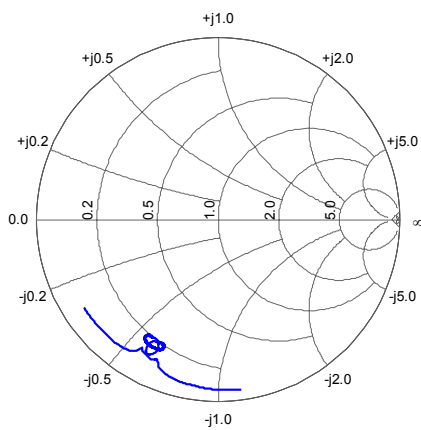
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±10MHz)

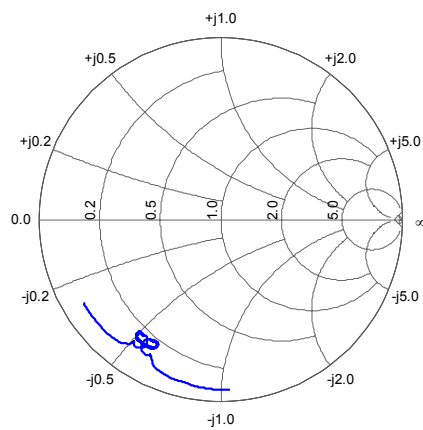


Horizontal: 5MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22



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