



Features

- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	43.9	44	44.1
Insertion Loss	dB	-	24.5	25
1 dB Bandwidth	MHz	-	11.75	-
3 dB Bandwidth	MHz	12	12.78	-
40 dB Bandwidth	MHz	-	16.65	17
Passband Variation	dB	-	0.5	1
Absolute Delay	usec	-	1.49	-
Ultimate Rejection	dB	50	53	-
Material Temperature coefficient	KHz/°C	-3.61		
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:

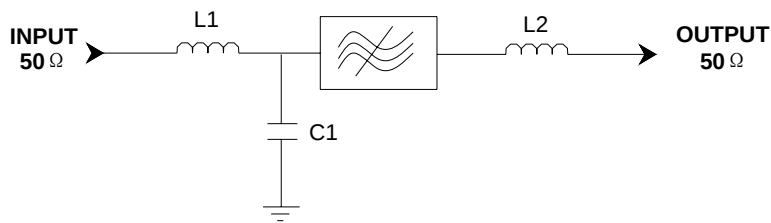
- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
- This is the optimum impedance in order to achieve the performance show.



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Part Number	LBN04403		
Rev. Date	2008-01-21		
Ver.	2.0	Page	1/3

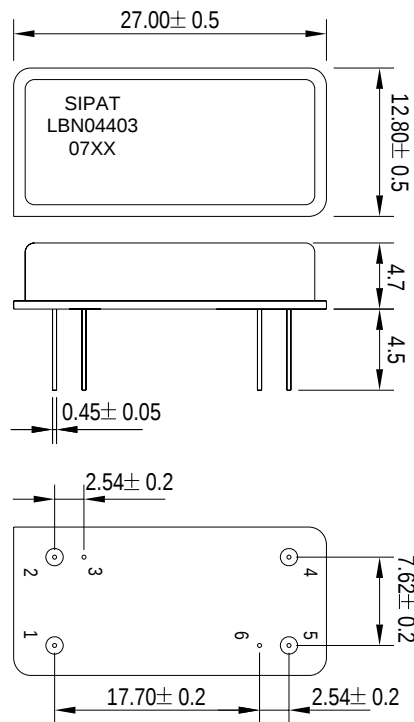
Matching Configuration



L1=560nH L2=270nH
C1=15pF
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) LBN04403: Part Number
- 3) 07XX: Date Code

Package: DIP2712

Unit: mm



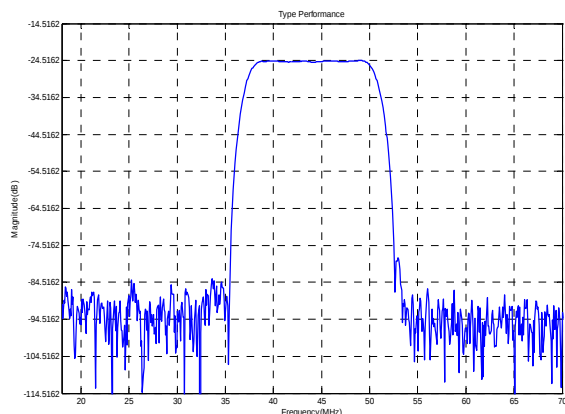
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Typical Performance

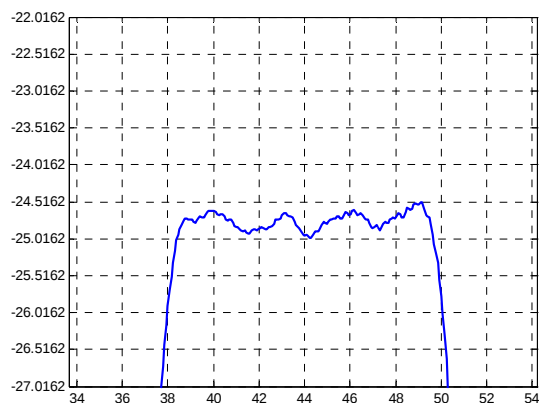
Frequency Respond



Horizontal: 5MHz/Div

Vertical: 10dB/Div

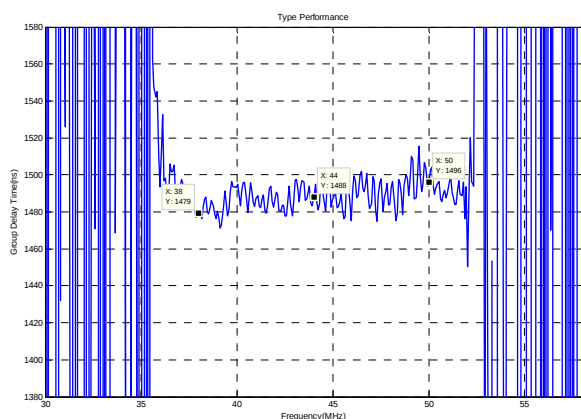
Passband Respond



Horizontal: 2MHz/Div

Vertical: 0.5dB/Div

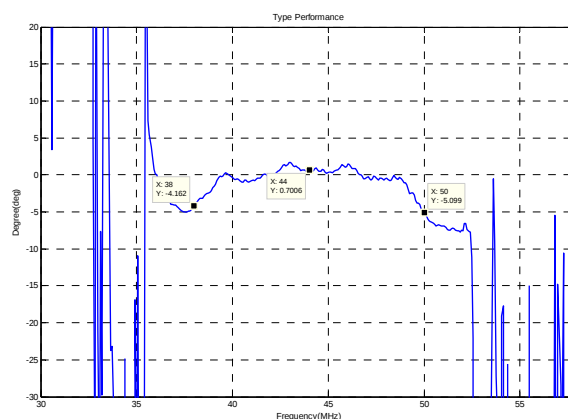
Group Delay Variation($f_0 \pm 6\text{MHz}$)



Horizontal: 5MHz/Div

Vertical: 20ns/Div

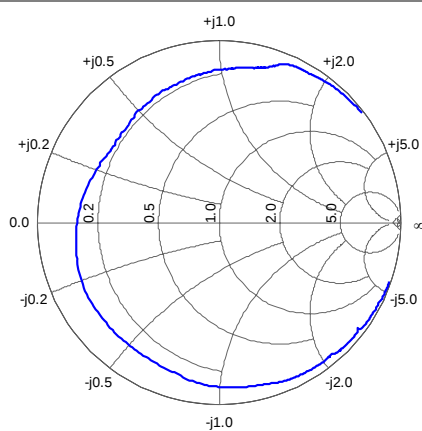
Phase Linearity($f_0 \pm 6\text{MHz}$)



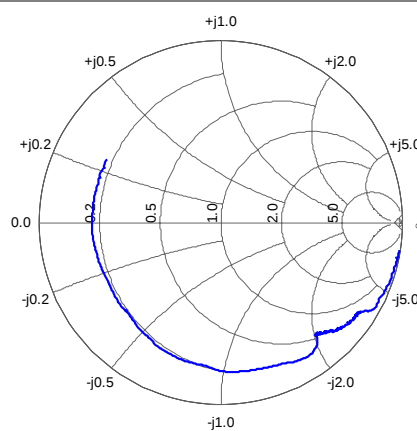
Horizontal: 5MHz/Div

Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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