



Features

- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.75	140	140.25
Insertion Loss	dB	-	25	26
1 dB Bandwidth	MHz	26.4	26.61	-
3 dB Bandwidth	MHz	28	28.26	-
40 dB Bandwidth	MHz	-	34.56	36
50 dB Bandwidth	MHz	-	35.13	36.4
Passband Variation	dB	-	0.5	0.7
Phase Linearity(f0±13MHz)	deg	-	3	6
Group Delay Variation(f0±13MHz)	nsec	-	15	50
Absolute Delay	usec	-	1.04	-
Ultimate Rejection	dB	50	58	-
Material Temperature coefficient	KHz/°C	-11.48		
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	-	1		
Package Size	DIP2212 (22.2x12.8x4.7mm3)			

Notes:

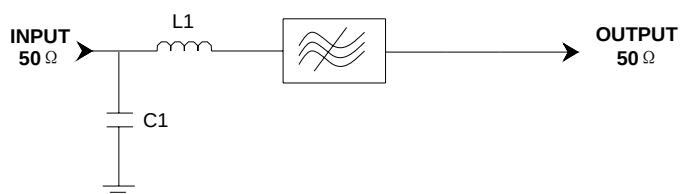
- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing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



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Part Number	LBN14010		
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Ver.	1.0	Page 1/3	

Matching Configuration

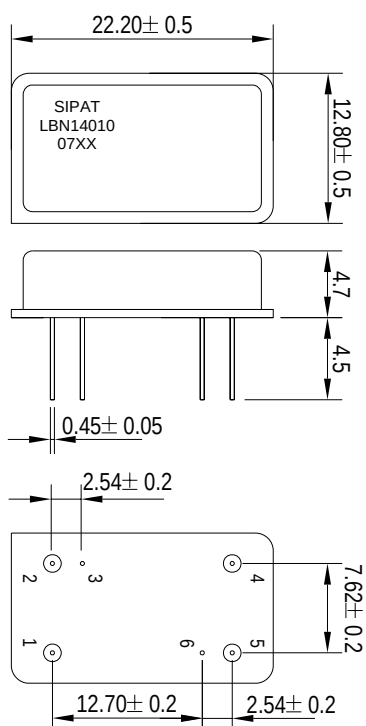


L1=47nH C1=18pF

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) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBN14010: Part Number
- 4) 07XX: Date Code

Package: DIP2212

Unit: mm



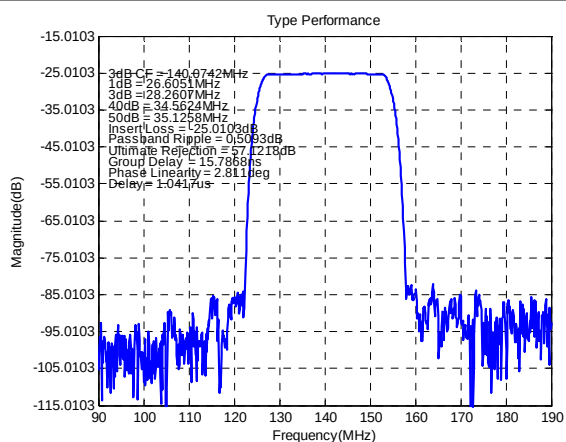
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Typical Performance

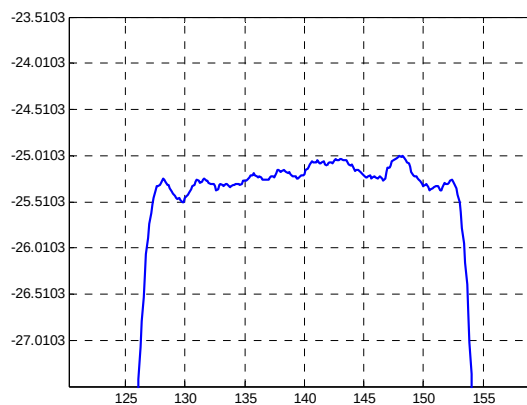
Frequency Respond



Horizontal: 10MHz/Div

Vertical: 10dB/Div

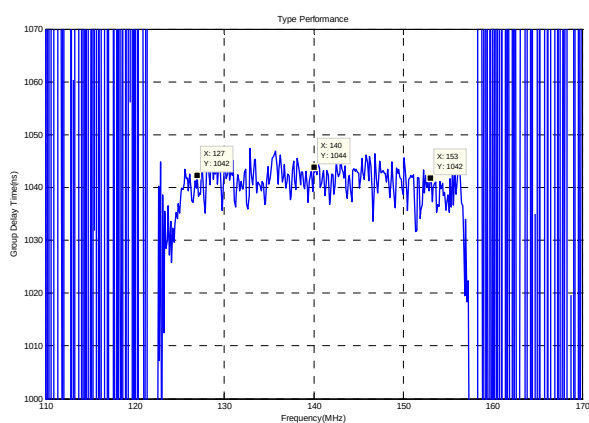
Passband Respond



Horizontal: 5MHz/Div

Vertical: 0.5dB/Div

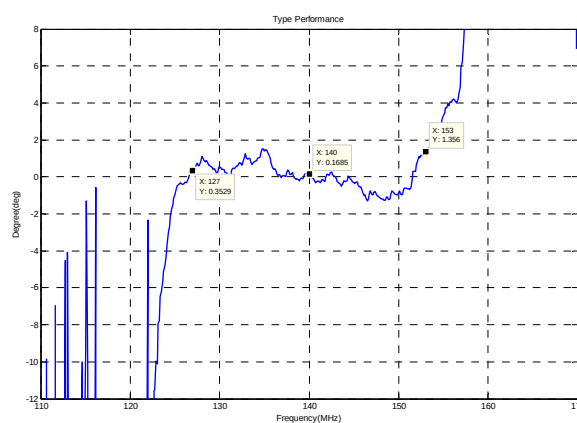
Group Delay Variation(f0±13MHz)



Horizontal: 10MHz/Div

Vertical: 10ns/Div

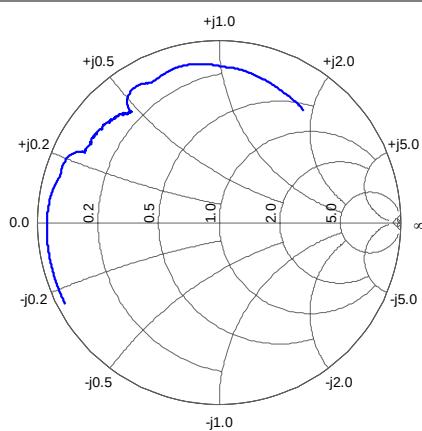
Phase Linearity(f0±13MHz)



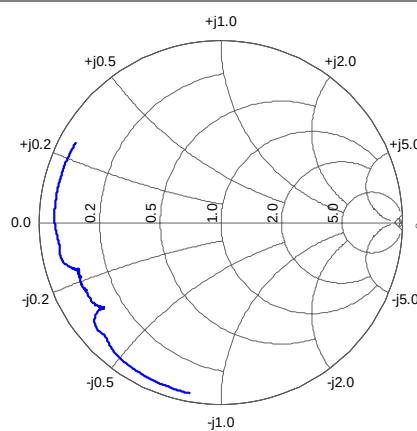
Horizontal: 10MHz/Div

Vertical: 2deg/Div

Smith Chart S11



Smith Chart S22



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