



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	139.8	140	140.2
Insertion Loss	dB	-	21.3	23.5
1 dB Bandwidth	MHz	8.5	8.63	-
3 dB Bandwidth	MHz	9	9.24	-
40 dB Bandwidth	MHz	-	11.36	11.7
50 dB Bandwidth	MHz	-	11.54	12.2
Phase Linearity(f0±4MHz)	deg	-	4	7
Group Delay Variation(f0±4MHz)	nsec	-	100	210
Passband Variation	dB	-	0.6	1
Absolute Delay	usec	-	2.05	-
Ultimate Rejection	dB	50	56	-
Material Temperature coefficient	KHz/°C	-13.16		
Substrate Material	-	YZ LN		
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 (22.2x12.8x4.7mm3)			

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	LBN14018	
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Matching Configuration

INPUT
50 Ω

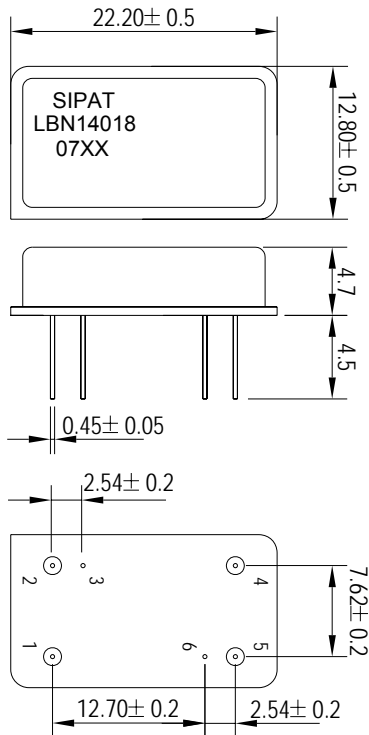


OUTPUT
50 Ω

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) LBN14018: Part Number
- 3) 08XX: Date Code

Package: DIP2212

Unit: mm



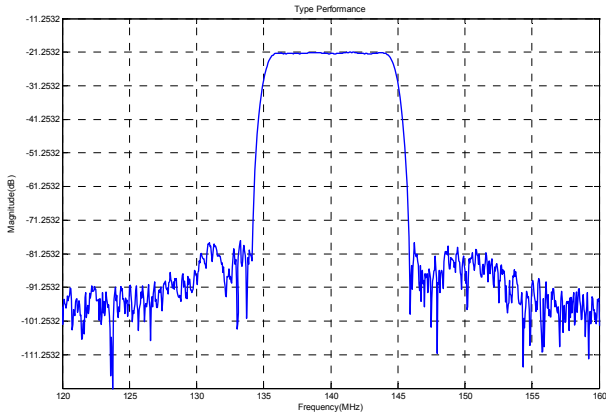
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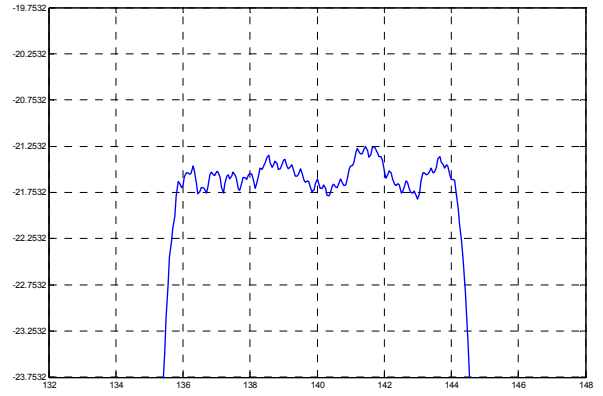
Typical Performance

Frequency Respond



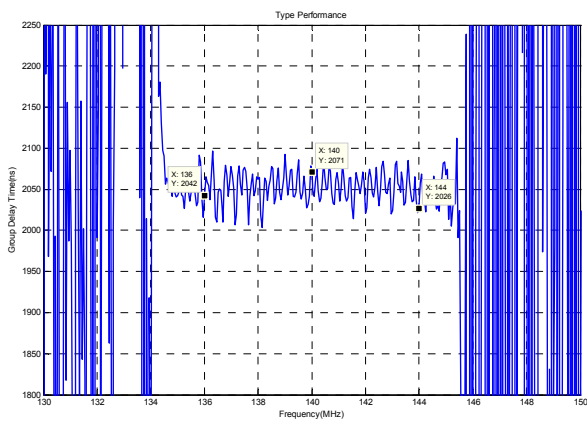
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



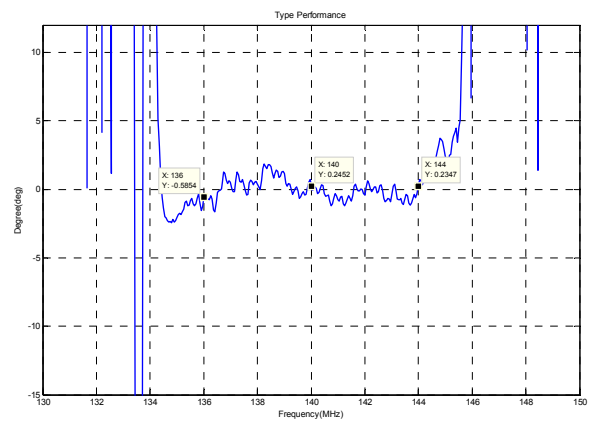
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation($f_0 \pm 4$ MHz)



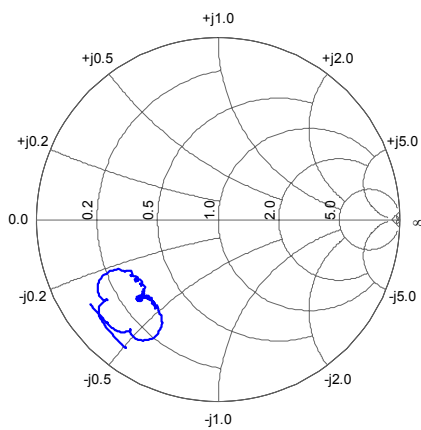
Horizontal: 2MHz/Div Vertical: 50ns/Div

Phase Linearity($f_0 \pm 4$ MHz)

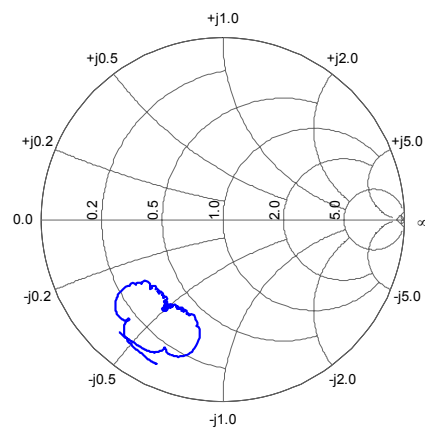


Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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