



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 (f_0)	MHz	143.05	143.2	143.35
Insertion Loss	dB		24.8	28
1.5dB Bandwidth	MHz	9.8	9.88	
45dB Bandwidth			10.83	11.0
Passband Variation	dB		0.7	1.2
Ultimate Rejection	dB	50	55	
Absolute Delay	usec		3.87	4
Material Temperature coefficient	KHz/°C		-2.58	
Substrate Material	-		112LT	
Ambient Temperature	°C		25	
Operating Temperature Range	°C	-25	-	+85
DC Voltage	V		0	
Input Power	dBm	-	-	10
ESD Class	-		1A	
Package Size		DIP3512 (35.0x12.8x4.7)		

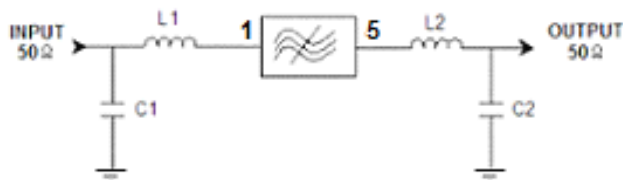
Notes:

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	LBT14303	
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Matching Configuration

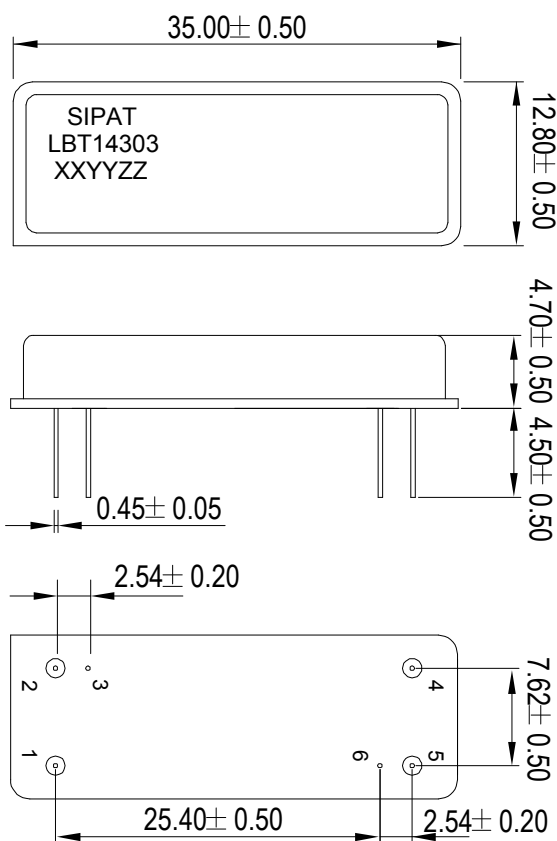
手动测试座



L1=33nH L2=27nH
C1=47pF C2=47pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 1
Output 5
Ground 2,3,4,6

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBT14303: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm

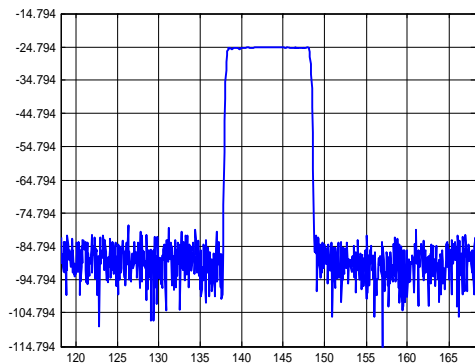


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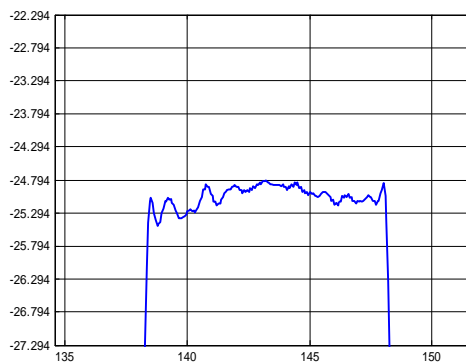
Typical Performance

Frequency Response



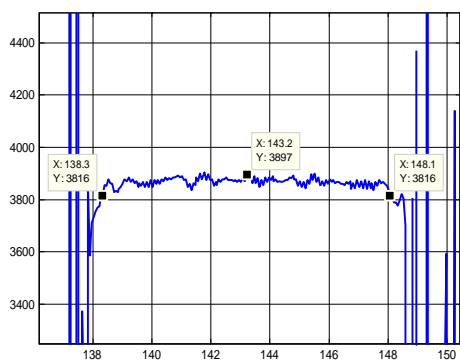
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



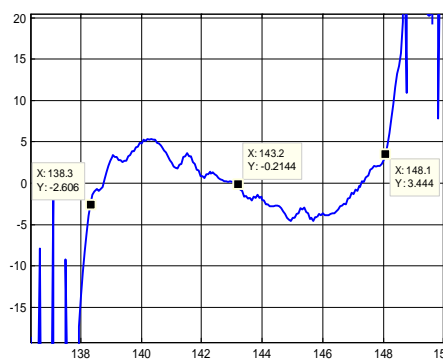
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



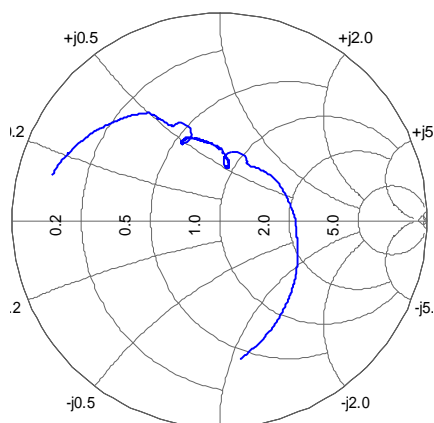
Horizontal: 2MHz/Div Vertical: 200ns/Div

Phase Linearity

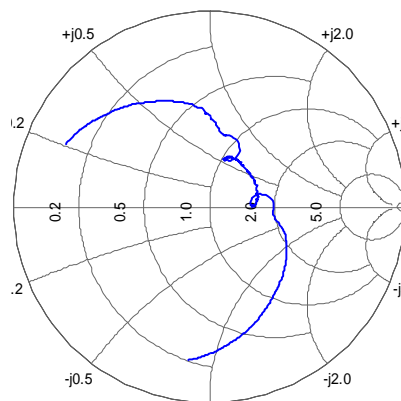


Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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