



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	MHz	139.6	140	140.4
Insertion Loss	dB	-	11.3	13
3 dB Bandwidth	MHz	23.9	25.1	-
30 dB Bandwidth	MHz	-	28.1	30.5
Passband Variation($f_0 \pm 10\text{MHz}$)	dB	-	0.6	1.0
Group delay variation ($f_0 \pm 10\text{MHz}$)	dB		35	80
Ultimate Rejection($f_0 \pm 20\text{MHz}$)	dB	40	42	-
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		SMD7.0*5.0		

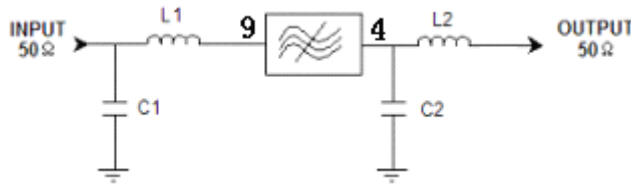
Notes:

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	LB140DS51	
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Matching Configuration

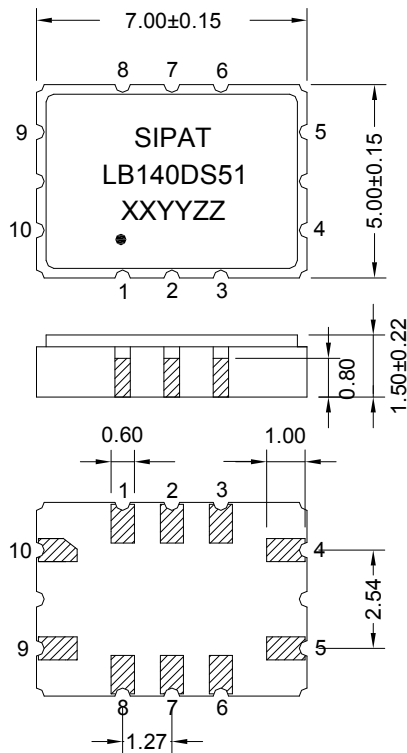
手动测试座



L1=15+82nH L2=39nH
C1=33pF C2=2.2pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 9
Output 4
Ground the others


Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LB140DS51: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

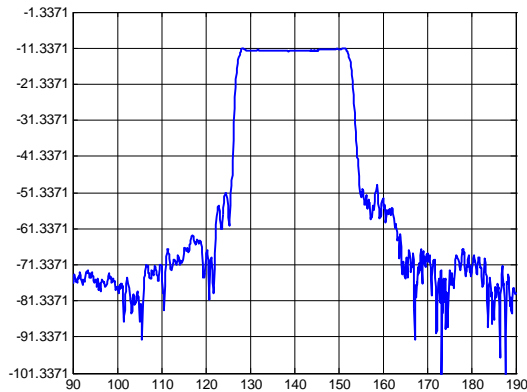
Unit: mm

Typical Performance

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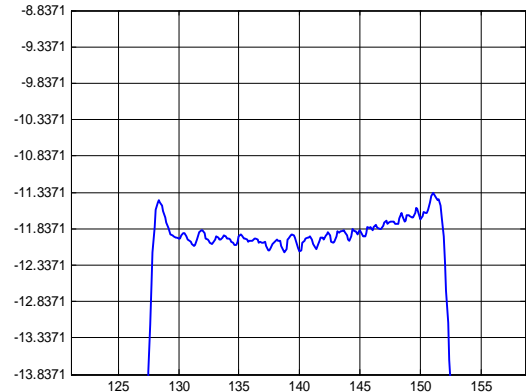


Frequency Response



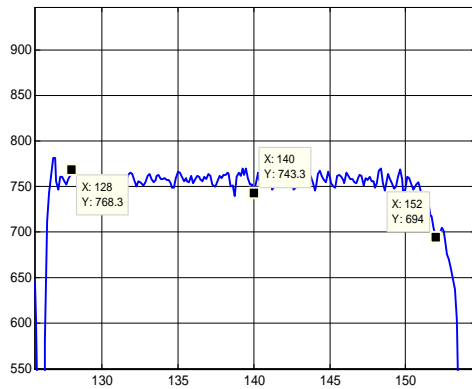
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Response



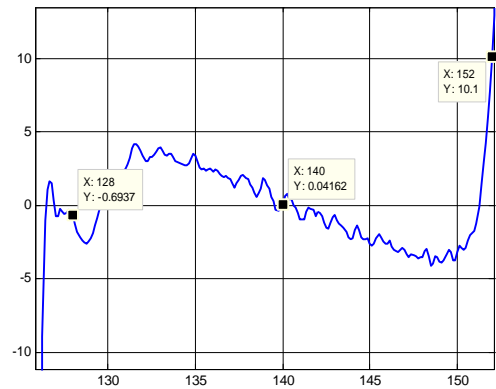
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Group Delay Variation



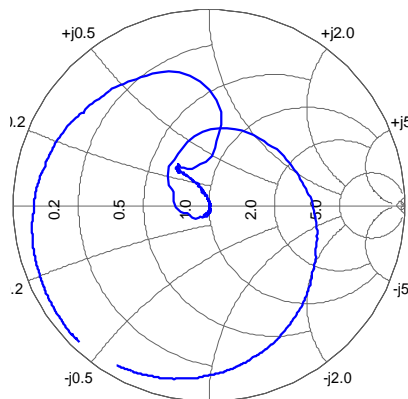
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity

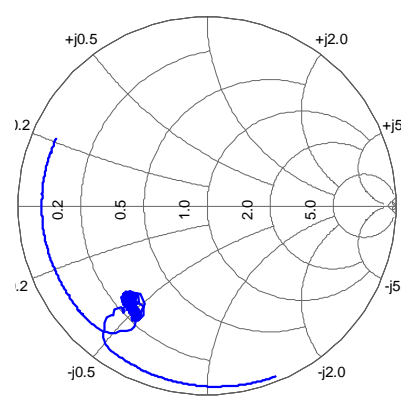


Horizontal: 5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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