


Specifications

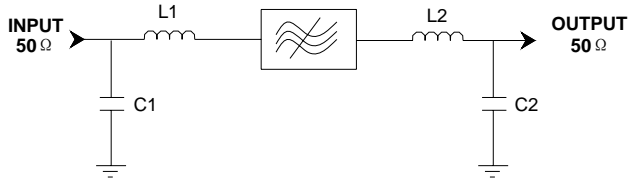
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	-	140	-	
Insertion Loss	dB	-	10.3	11.5	
1 dB Bandwidth	MHz	18.4	21.21	-	
3 dB Bandwidth	MHz	19.6	22.07	-	
35 dB Bandwidth	MHz	-	25.66	26.4	
40 dB Bandwidth	MHz	-	26.3	-	
Passband Variation (Over the 1dB bandwidth)	dB	-	0.6	1	
Absolute Delay	usec	-	1.2	-	
Group Delay Variation (130.8~149.2MHz)	nsec	-	80	160	
Ultimate Rejection	10~90MHz	dB	35	64	-
	90~125MHz	dB	40	52	-
	120~126.8MHz	dB	35	52	-
	155~160MHz	dB	40	45	-
	160~190MHz	dB	40	46	-
	190~800MHz	dB	35	73	-
Input VSWR(130.8~149.2MHz)	-	-	1.67	2.8	
Output VSWR(130.8~149.2MHz)	-	-	1.41	2.3	
Material Temperature coefficient	KHz/°C	-13.16			
Ambient Temperature	°C	25			
Package Size	SMD13.3*6.5				

Notes:

1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over 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) Nanping Huayuan Road No. 14 Chongqing, China, 400060	Part Number	LB140DS15	
		Rev. Date	2007-04-11	
		Rev.	1.1	Page

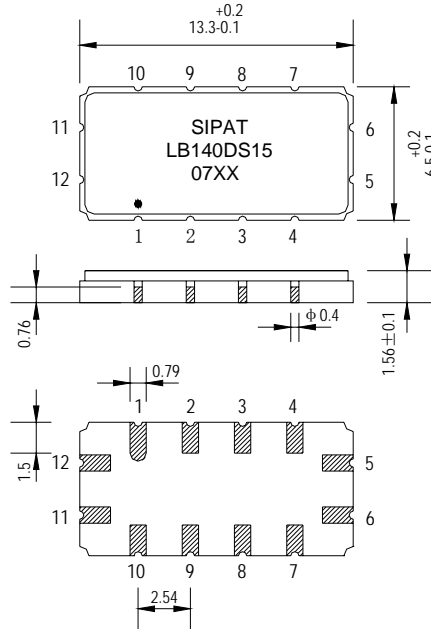
Matching Configuration



L1=127nH L2=100nH
C1=22pF C2=34pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



- 1) ∴ Pad Number 1 Index
- 2) SIPAT: Manufacturer name
- 3) LB140DS15: Part Number
- 4) 07XX: Date Code

Input	11
Output	5
Ground	1,2,3,4,6,7,8,9,10,12

Package: SMD13.3*6.5

Unit: mm

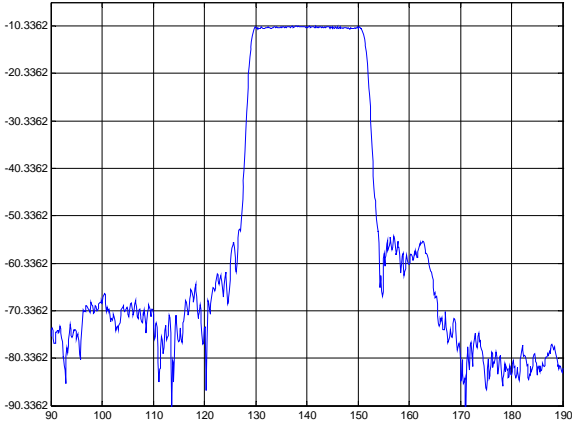


SIPAT Co., Ltd.
(CETC No. 26 Research Institute)
Nanping Huayuan Road No. 14
Chongqing, China, 400060

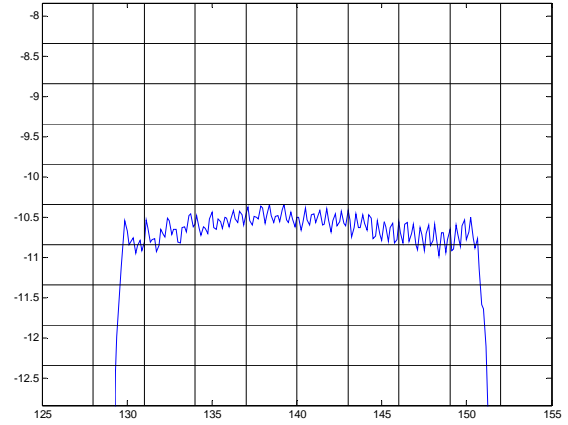
Part Number	LB140DS15	
Rev. Date	2007-04-11	
Rev.	1.1	Page 2/4

Typical Performance

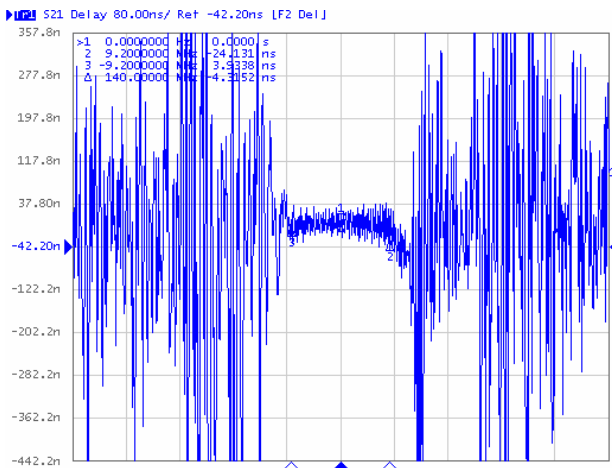
Frequency Respond



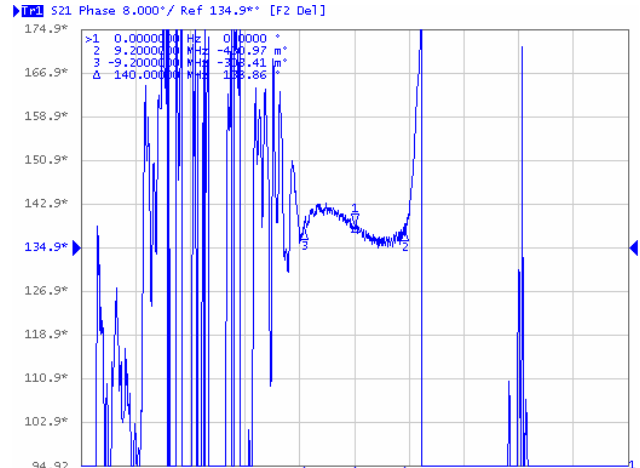
Passband Respond



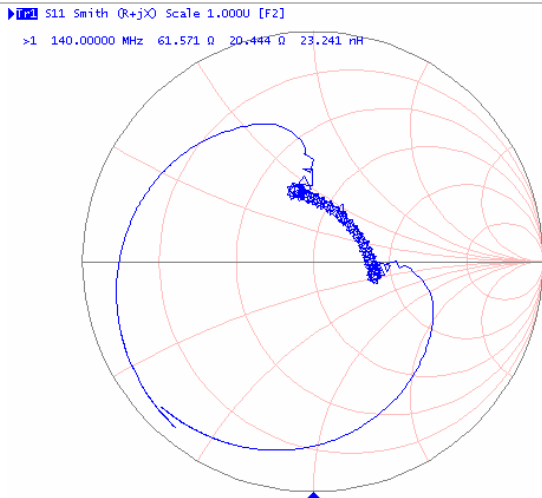
Group Delay Variation(f0±9.2MHz)



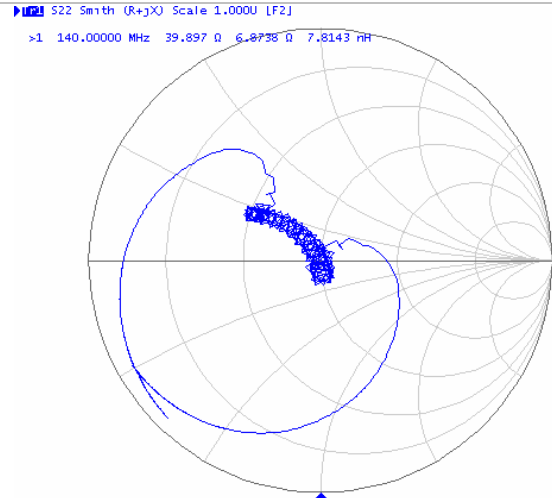
Phase Linearity(f0±9.2MHz)



Smith Chart S11



Smith Chart S22



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Page 3/4

Maximum Ratings

Operating Temperature Range	°C	[-40°C;+85°C]
Storage Temperature Range	°C	[-40°C;+105°C]
DC Voltage	V	0
Input Power	dBm	10 max
ESD Class		1



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