



Features

- ✧ For GSM Rx IF applications
- ✧ High attenuation
- ✧ Single-ended or Balanced operation
- ✧ Ceramic Surface Mount Package
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Specifications

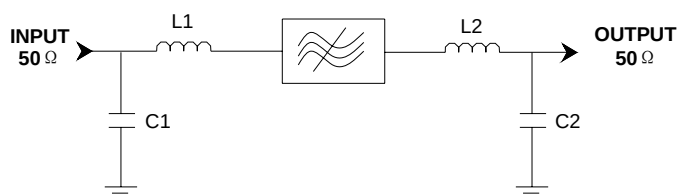
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	-	71	-	
2 dB Bandwidth	MHz	0.18	0.34	-	
3 dB Bandwidth	MHz	0.22	0.37	-	
5 dB Bandwidth	MHz	-	0.4	0.5	
20 dB Bandwidth	MHz	-	0.58	0.7	
30 dB Bandwidth	MHz	-	0.73	1	
35 dB Bandwidth	MHz	-	0.84	1.4	
40 dB Bandwidth	MHz	-	1.08	5	
Group Delay Variation(f0±0.11MHz)	nsec	-	500	1500	
Minimum Insertion Loss within passband at ambient temperature	dB	-	6.6	7.3	
Minimum Insertion Loss within passband over temperature range	dB	-	6.6	8.5	
Ultimate Rejection	10 ~68.5MHz	dB	40	45	-
	73.5 ~130MHz	dB	40	42	-
Material Temperature coefficient	KHz/°C	0.071			
Substrate Material	-	Qz			
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	SMD1365A				

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.

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBS07101L	
		Rev. Date	2010-07-21	
		Ver.	6.0	Page 1/3

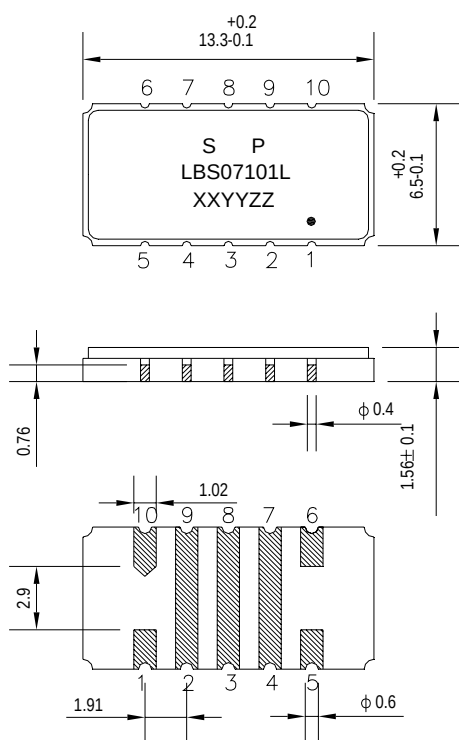
Matching Configuration



L1 = (470+47) nH L2 = (470+12) nH
C1 = (56+15) pF C2 = (47+27) pF
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 6 Index
- 2) SIPAT: Manufacturer Name
- 3) LBS07101L: Part Number
- 4) 08XX: Date Code

Package: SMD1365A

Unit: mm



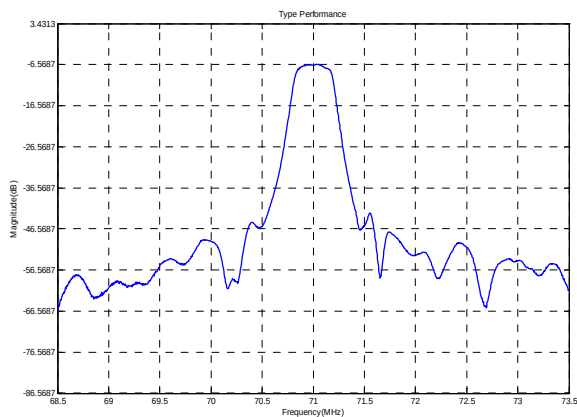
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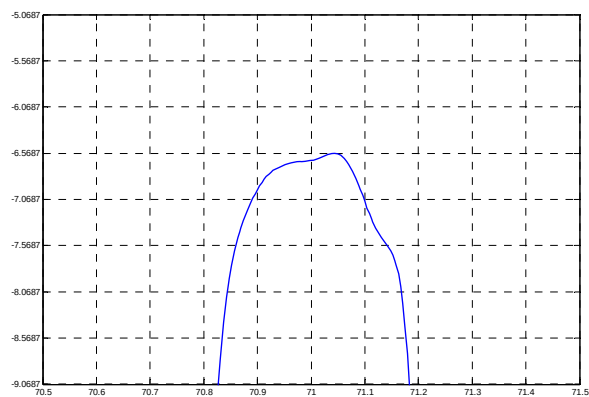


Typical Performance

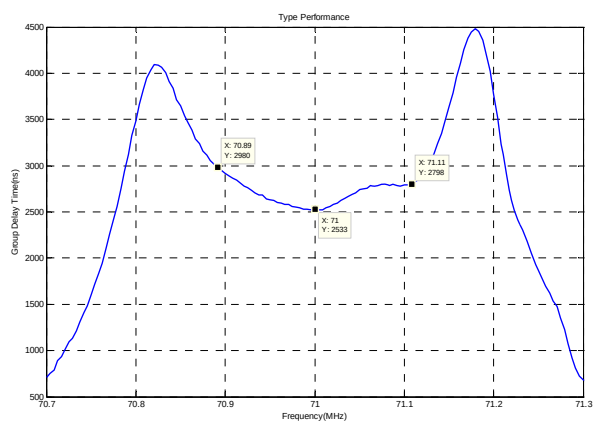
Frequency Respond



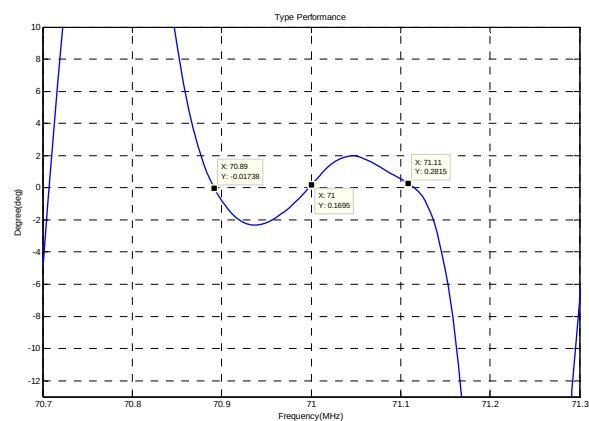
Passband Respond



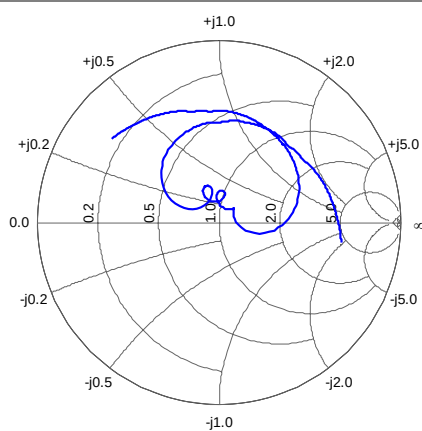
Group Delay Variation($f_0 \pm 0.11\text{MHz}$)



Phase Linearity($f_0 \pm 0.11\text{MHz}$)



Smith Chart S11



Smith Chart S22

