



Features

- ✧ For CDMA Basestation Receiver Applications
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.98	69.99	70
Insertion Loss	dB	-	20	21
1.5 dB Bandwidth	MHz	1.26	1.28	-
35 dB Bandwidth	MHz	-	1.48	1.5
50 dB Bandwidth	MHz	-	1.62	
Passband Variation(in Fc ±0.615 MHz)	dB	-	0.8	1
Group Delay Variation(in Fc±0.615MHz)	nsec		900	
Phase Linearity (in Fc ±0.615 MHz)	deg		9	
Absolute Delay	usec	-	11.11	-
Ultimate Rejection(outside Fc ±0.9 MHz)	dB	50	52	-
Triple transit suppression	dB	30	40	
Input/Output SWR at Fc	-	-	1.1	1.8
Material Temperature coefficient	KHz/°C	0.07		
Substrate Material	-	Quartz		
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	-	1 C		
Package Size	DIP7320 (73.28x19.94x6.5 mm3)			

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.

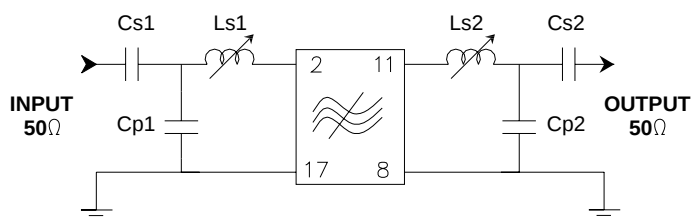


SIPAT Co., Ltd.
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Part Number	LBS07073		
Rev. Date	2007-09-06		
Ver.	1.1	Page 1/3	



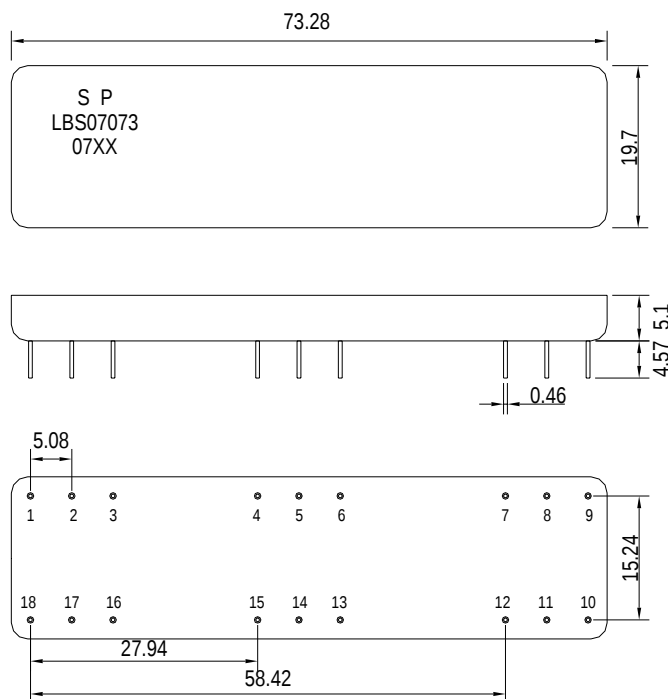
Matching Configuration



Ls1 = 150 nH Cp1 = 39 pF Cs1 = 15 pF
Ls2 = 150 nH Cp2 = 56 pF Cs2 = 22pF
Source /Load Impedance = 50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input 2
Output 11
Ground All Others

Marking Configuration:

- 1) SP: Manufacturer Name
- 2) LBS07073: Part Number
- 3) 07XX: Date Code

Package: DIP7320

Unit: mm



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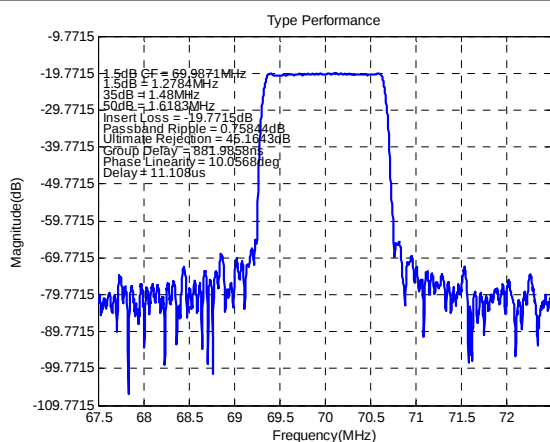
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Page 2/3



Typical Performance

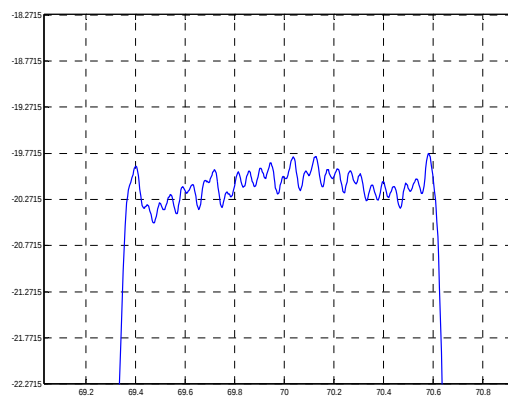
Frequency Respond



Horizontal: 0.5MHz/Div

Vertical: 10dB/Div

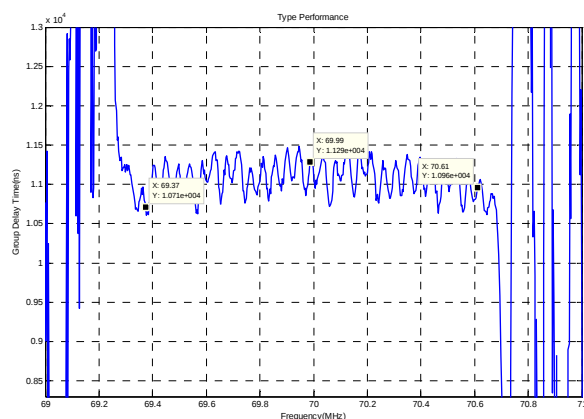
Passband Respond



Horizontal: 0.2MHz/Div

Vertical: 0.5dB/Div

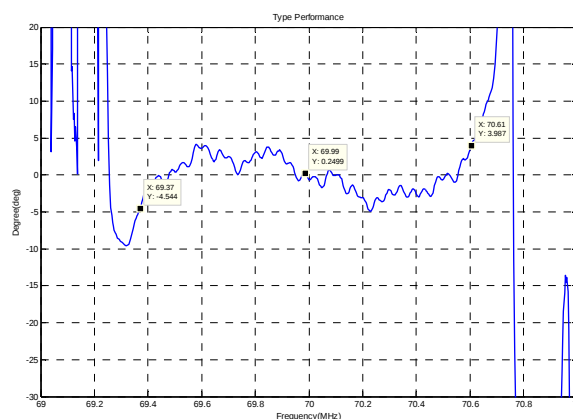
Group Delay Variation($f_0 \pm 0.615\text{MHz}$)



Horizontal: 0.2MHz/Div

Vertical: 500ns/Div

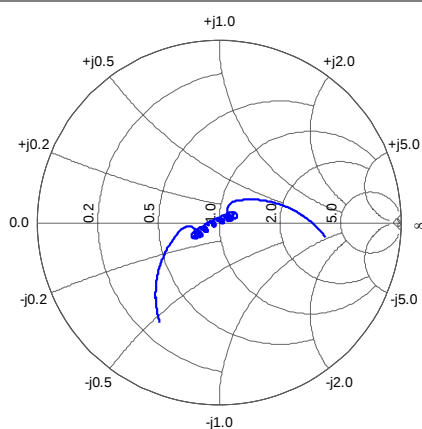
Phase Linearity($f_0 \pm 0.615\text{MHz}$)



Horizontal: 0.2MHz/Div

Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22

