

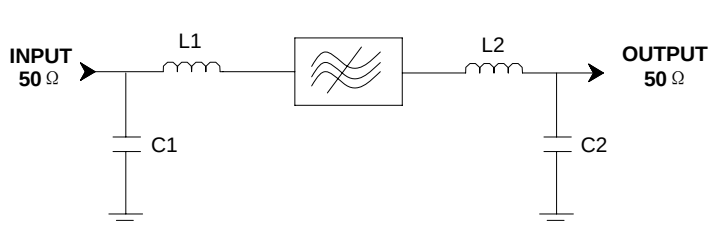
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	78.3	78.5	78.7
Insertion Loss	dB	-	11	16
1 dB Bandwidth	MHz	18.9	19.62	-
3 dB Bandwidth	MHz	20	21	-
35 dB Bandwidth	MHz	-	24.46	26.1
Passband Variation	dB	-	0.7	1
Absolute Delay	usec	-	1.2	-
Group Delay Variation(f0±9MHz)	nsec	-	110	-
Material Temperature coefficient	KHz/°C	-7.38		
Ambient Temperature	°C	25		
Package Size	SMD13.3*6.5A			

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

Matching Configuration



L1=150nH L2=110nH
C1=56pF C2=47pF
Source /Load Impedance=50 ohm

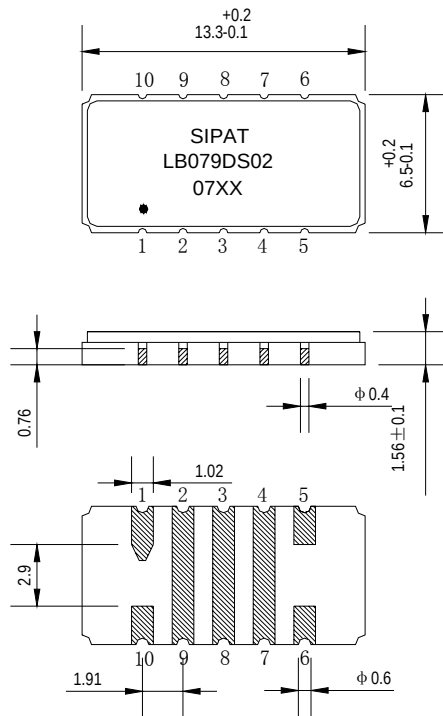
Notes - Component values may change depending
on board layout.



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

Part Number	LB079DS02		
Rev. Date	2007-04-20		
Ver.	1.0	Page 1/4	

Package Dimension



- 1) ∴ Pad Number 1 Index
- 2) SIPAT: Manufacturer name
- 3) LB079DS02: Part Number
- 4) 07XX: Date Code

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

Package: SMD13.3*6.5A

Unit: mm

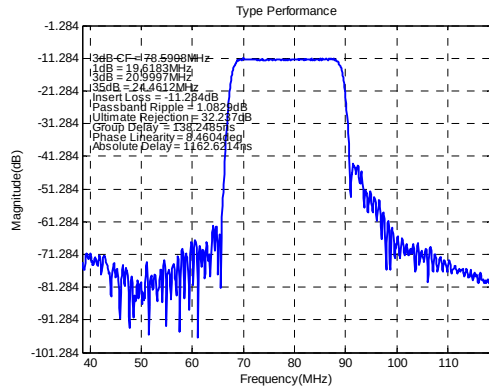


SIPAT Co., Ltd.
(CETC No. 26 Research Institute)
Nanping Huayuan Road No. 14
Chongqing, China, 400060

Part Number	LB079DS02		
Rev. Date	2007-04-20		
Ver.	1.0	Page	2/4

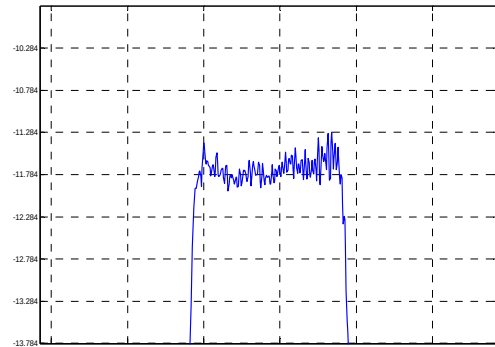
Typical Performance

Frequency Response



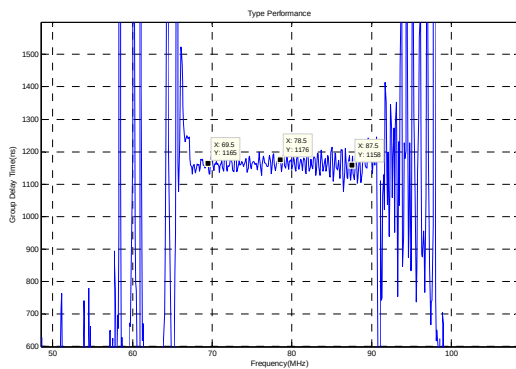
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Response



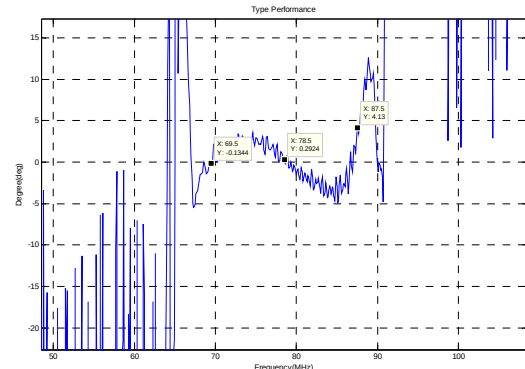
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±9MHz)



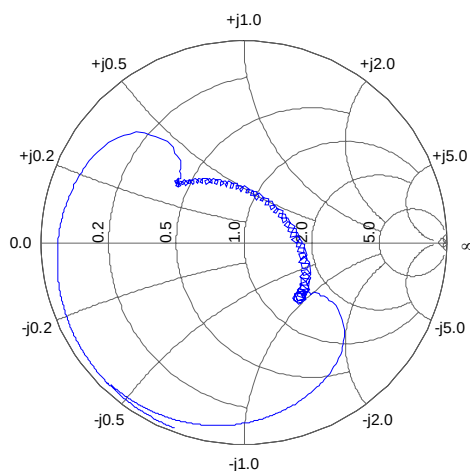
Horizontal: 10MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±9MHz)

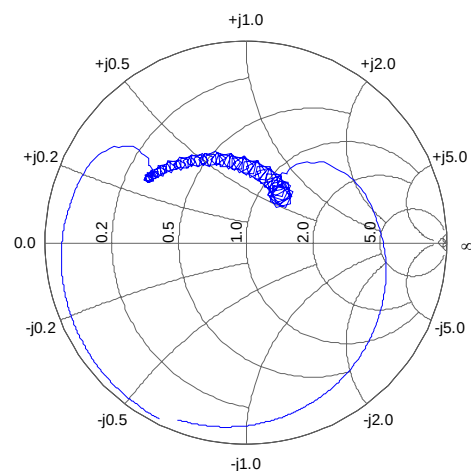


Horizontal: 10MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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

Part Number

LB079DS02

Rev. Date

2007-04-20

Ver.

1.0

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

	SIPAT Co., Ltd. (CETC No. 26 Research Institute) Nanping Huayuan Road No. 14 Chongqing, China, 400060	Part Number	LB079DS02	
		Rev. Date	2007-04-20	
		Ver.	1.0	Page 4/4