



Features


- ◇ For IF SAW filter
- ◇ Single-ended operation
- ◇ Ceramic Surface Mount Package
- ◇ Small size
- ◇ RoHS compliant (2002/95/EC), Pb-free

Specifications

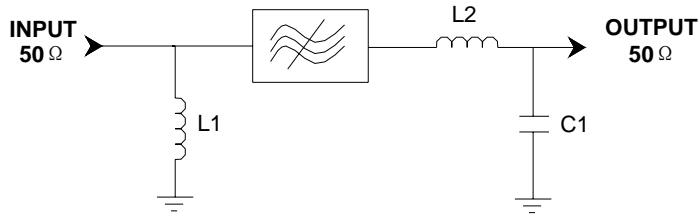
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.8	70	70.2
Insertion Loss	dB	-	10.3	13
1.2 dB Bandwidth	MHz	11.45	12	-
3 dB Bandwidth	MHz	12	12.88	-
40 dB Bandwidth	MHz	-	16.43	18.25
Passband Variation($f_0 \pm 5\text{MHz}$)	dB	-	0.3	1
Phase Linearity($f_0 \pm 5\text{MHz}$)	deg	-	4	11
Group Delay Variation($f_0 \pm 5\text{MHz}$)	nsec	-	30	-
Absolute Delay	usec	-	0.85	-
Ultimate Rejection($f_0 \pm 9.2\text{MHz} \sim f_0 \pm 20\text{MHz}$)	dB	35	38	-
Material Temperature coefficient	KHz/°C	-6.58		
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	SMD13.3*6.5			

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	LB070DS16	
		Rev. Date	2010-06-03	
		Ver.	1.3	Page

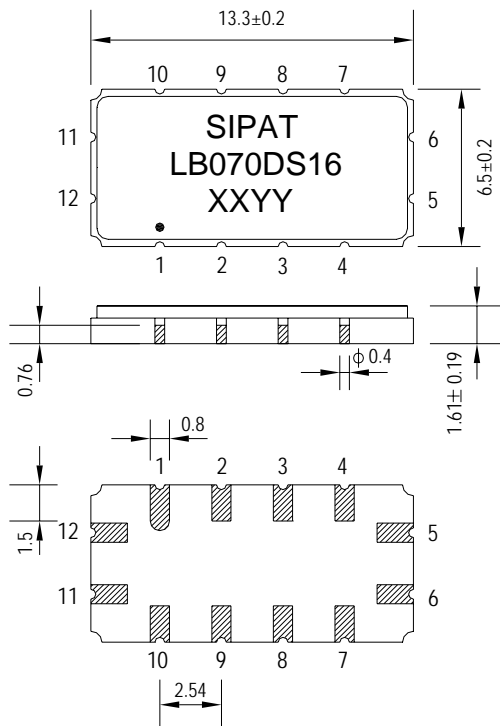
Matching Configuration



L1=68nH L2=120nH
C1=56pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input: 11
Output: 5
Ground: All Others

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LB070DS16: Part Number
- 4) XYYY: Date(Year/month)

Package: SMD13.3*6.5

Unit: mm

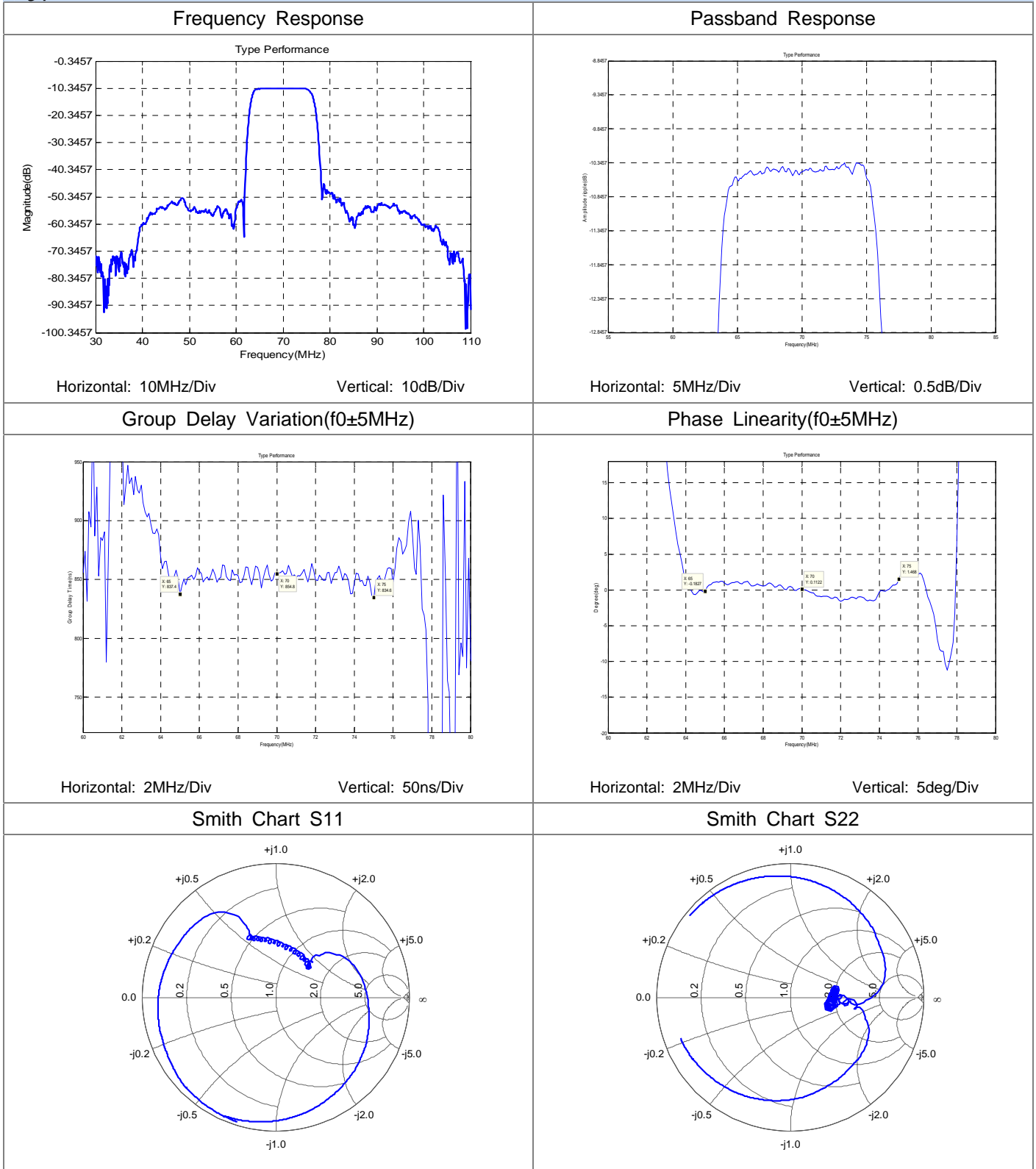


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Typical Performance



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