



### 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	-	9.3	11
1 dB Bandwidth	MHz	9.35	10.09	-
3 dB Bandwidth	MHz	10	11.08	-
40 dB Bandwidth	MHz	-	15.75	15.8
Passband Variation( $f_0 \pm 5\text{MHz}$ )	dB	-	0.8	1
Phase Linearity( $f_0 \pm 5\text{MHz}$ )	deg	-	9	11.5
Group Delay Variation( $f_0 \pm 5\text{MHz}$ )	nsec	-	100	-
Absolute Delay	usec	-	1.1	-
Ultimate Rejection( $f_0 \pm 15\text{MHz}$ )	dB	50	53	-
Material Temperature coefficient	KHz/°C	-6.58		
Substrate Material	-	YZ LN		
Ambient Temperature	°C	25		
Storage Temperature Range	°C	-40	-	+85
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.



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Part Number	LB070DS15		
Rev. Date	2010-07-02		
Ver.	2.0	Page 1/3	

### Matching Configuration

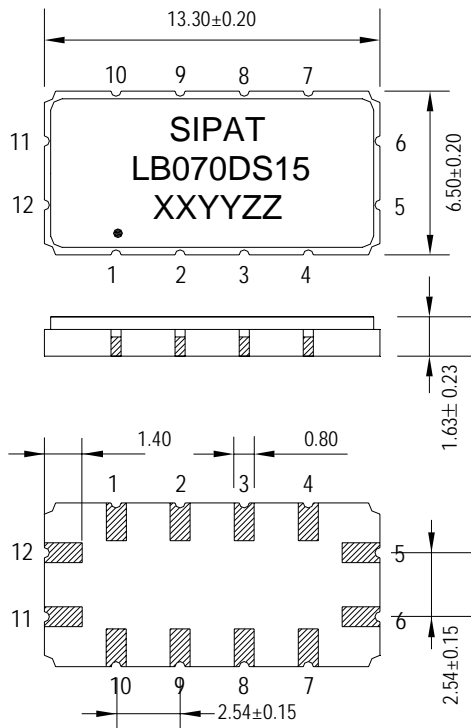


**L1=L2=150nH**

**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) LB070DS15: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

**Package: SMD13.3\*6.5**

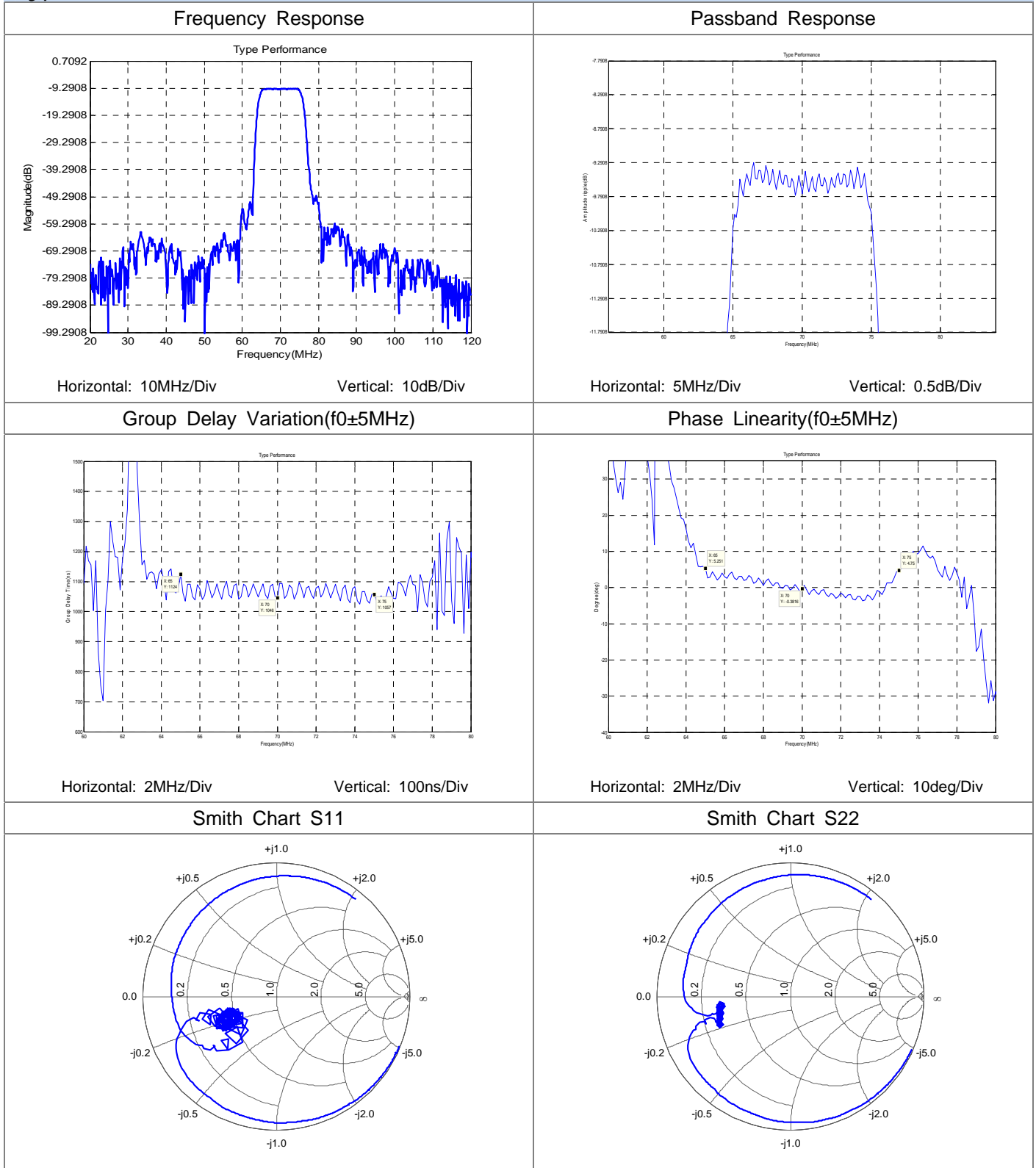
**Unit: mm**



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Typical Performance



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