



Features


- ◇ For IF SAW filter
- ◇ High attenuation
- ◇ Single-ended operation
- ◇ Dual In-line Package
- ◇ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	306.7	307.2	307.7	
Insertion Loss	dB	-	13.5	20	
1dB Bandwidth	MHz	4.6	4.73	-	
20dB Bandwidth	MHz	-	8.99	-	
Passband Variation ($f_0 \pm 2.3\text{MHz}$)	dB	-	0.6	1.0	
Group delay variation ($f_0 \pm 2.3\text{MHz}$)	Ns	-	60	50	
Absolute Delay	usec	-	0.7	-	
Ultimate Rejection	150 ~ 229MHz	dB	45	60	-
	229.9 ~ 294.7MHz	dB	40	50	-
	294.7 ~ 299.7MHz	dB	30	40	-
	299.7 ~ 302.2MHz	dB	20	25	-
	312.2 ~ 314.7MHz	dB	20	25	-
	314.7 ~ 319.7MHz	dB	35	40	-
	319.7 ~ 559.5MHz	dB	45	50	-
	559.5 ~ 809.5MHz	dB	40	50	-
	809.5 ~ 1500MHz	dB	30	45	-
1500 ~ 3300MHz	dB	10	12	-	
Material Temperature coefficient	KHz/°C	-5.53			
Substrate Material	-	112LT			
Ambient Temperature	°C	25			
Operating Temperature Range	°C	-25	-	+85	
Storage Temperature Range	°C	-45	-	105	
ESD Class	-	1A			
Package Size	SMD7.0*5.0				

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

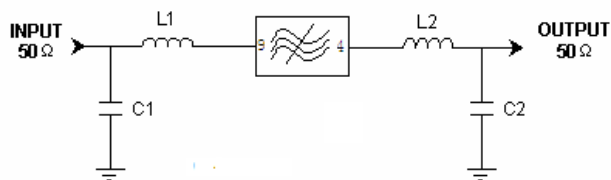
	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBT30701	
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manufacturing tolerances;

4. This is the optimum impedance in order to achieve the performance show.

Matching Configuration

手动测试座



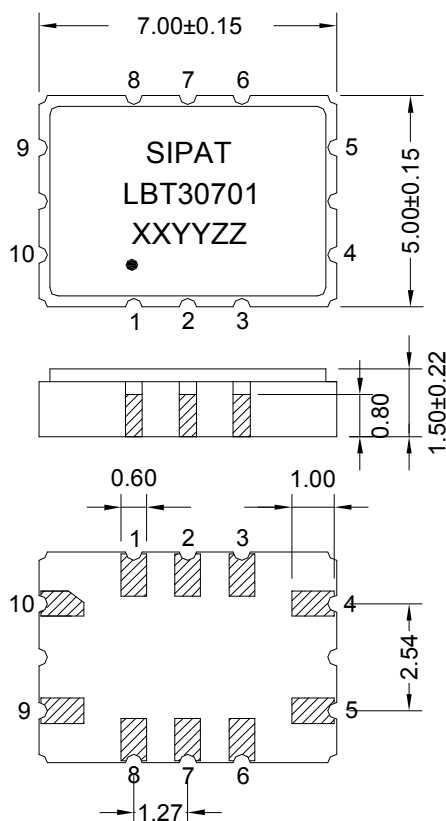
$L1=L2=22nH$

$C1=4.7pf$ $C2=18pf$

Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 9
Output 4
Ground the others

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBT30701: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: SMD7.0*5.0

Unit: mm



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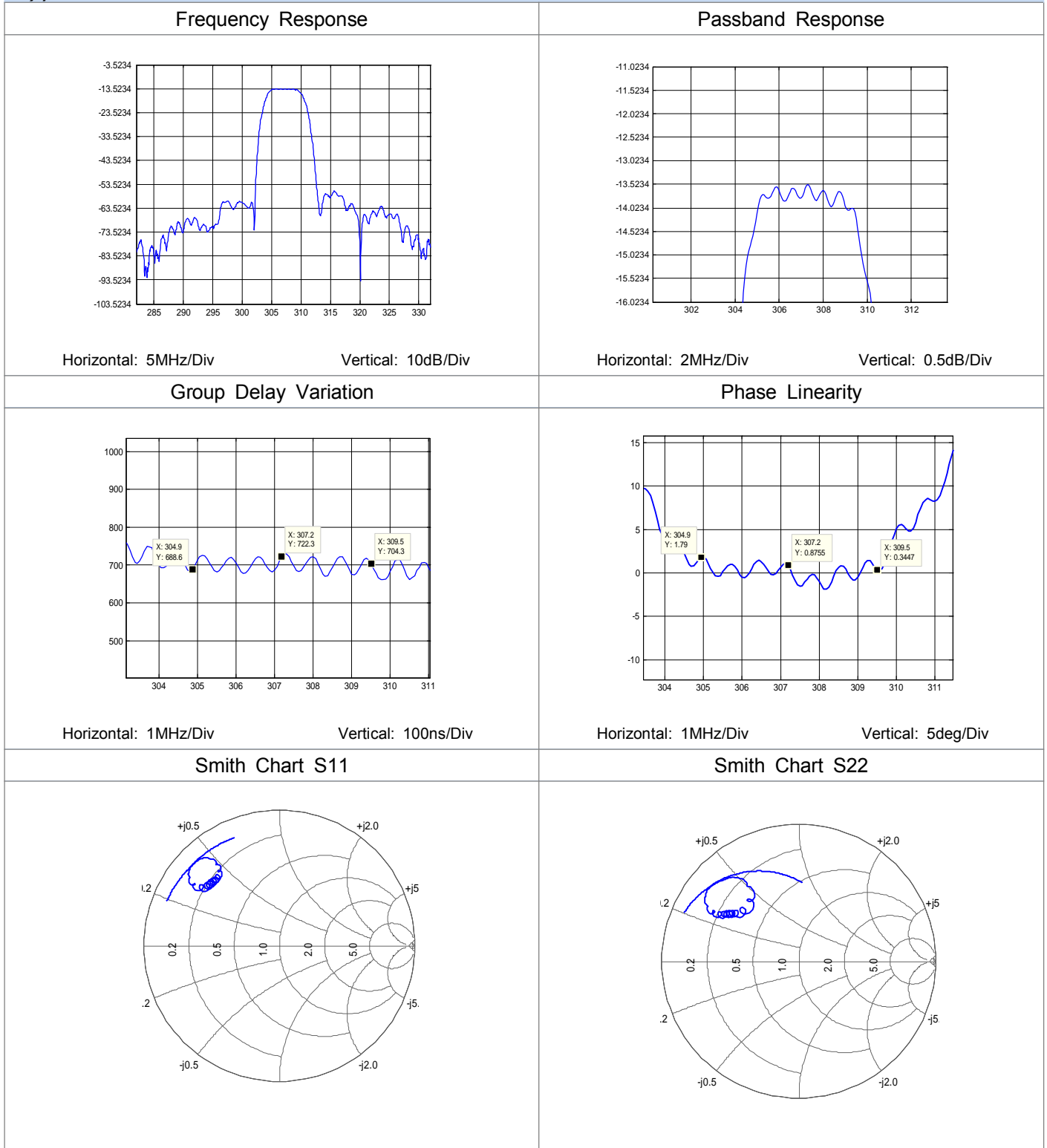
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Typical Performance



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