



Features


- ◇ For IF SAW filter
- ◇ High attenuation
- ◇ Single-ended operation
- ◇ Dual In-line Package
- ◇ No matching required for operation at 50Ω
- ◇ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.987	70	70.013
Insertion Loss	dB	-	15	18
3 dB Bandwidth	MHz	0.226	0.23	0.24
30 dB Bandwidth	MHz	-	0.61	0.65
Passband Variation	dB	-	0.1	0.2
Phase Linearity(f0±0.1MHz)	deg	-	5	-
Group Delay Variation(f0±0.1MHz)	nsec	-	400	-
Absolute Delay	usec	-	3.75	-
Ultimate Rejection	dB	45	48	60
Material Temperature coefficient	KHz/°C	0.07		
Substrate Material	-	Qz		
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	DIP3616 (36.0x16.0x5.0mm3)			

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	LBS70-0.2	
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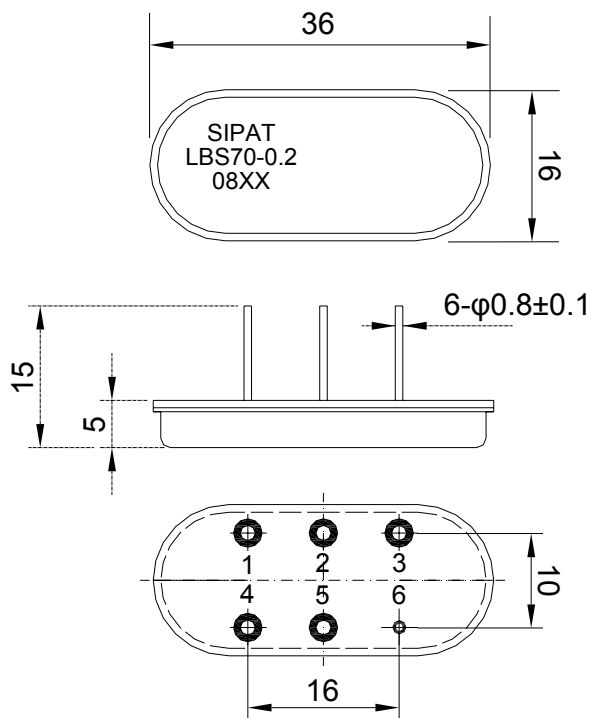
Matching Configuration



Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 3
Output 4
Ground All Others

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBS70-0.2: Part Number
- 3) 08XX: Date Code

Package: DIP3616

Unit: mm



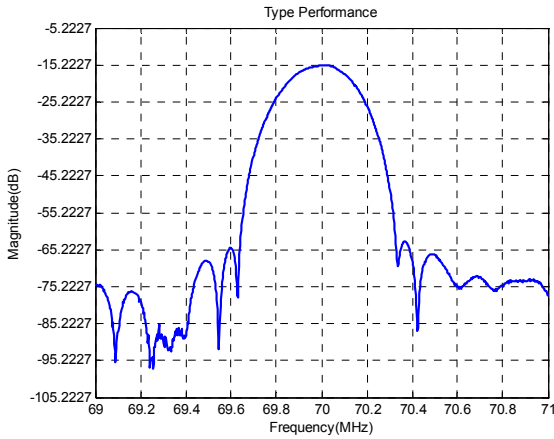
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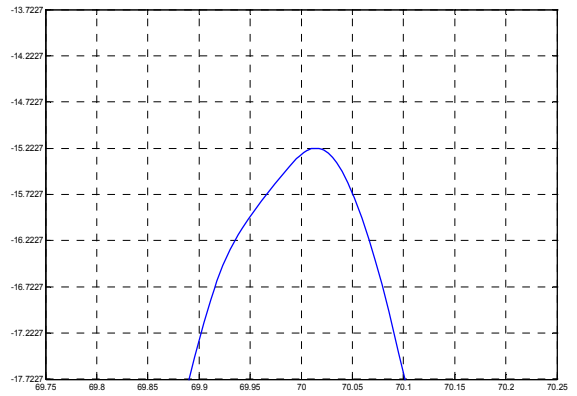
Typical Performance

Frequency Respond



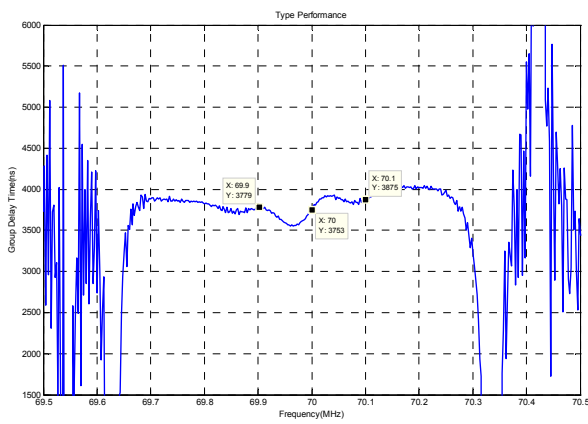
Horizontal: 0.2MHz/Div Vertical: 10dB/Div

Passband Respond



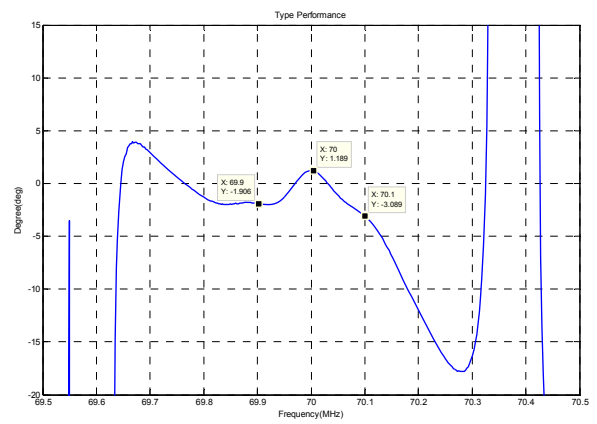
Horizontal: 0.05MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±0.1MHz)



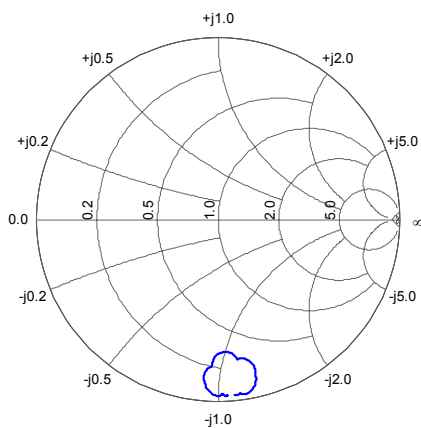
Horizontal: 0.1MHz/Div Vertical: 500ns/Div

Phase Linearity(f0±0.1MHz)

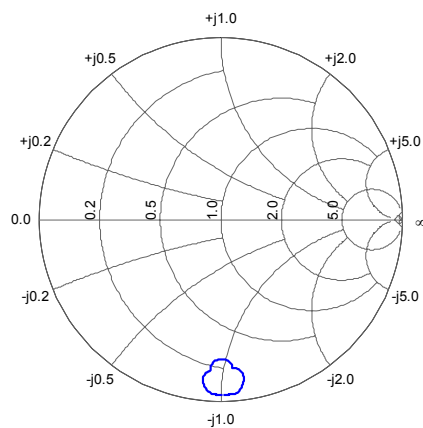


Horizontal: 0.1MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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