



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	99.85	100	100.15
Insertion Loss	dB	-	22.5	26
3dB Bandwidth	MHz	5.05	5.08	-
30dB Bandwidth	MHz	-	5.75	5.8
45dB Bandwidth	MHz	-	5.88	6.2
50dB Bandwidth	MHz	-	5.91	6.8
Passband Variation	dB	-	0.9	1.2
Absolute Delay	usec	-	4.2	4.5
Ultimate Rejection($f_0 \pm 7.5\text{MHz}$)	dB	50	55	-
Material Temperature coefficient	KHz/°C	-1.8		
Substrate Material	-	112° LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-25	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	DIP3512 (35*12.6*5.2mm3)			

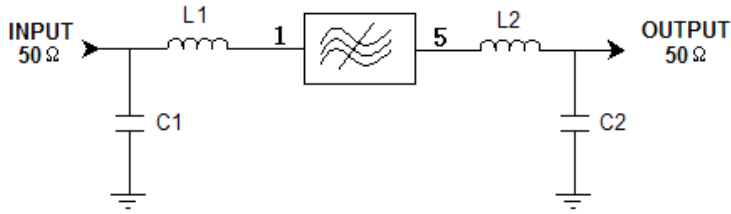
Notes:

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	LBT10015	
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Matching Configuration

手动测试座



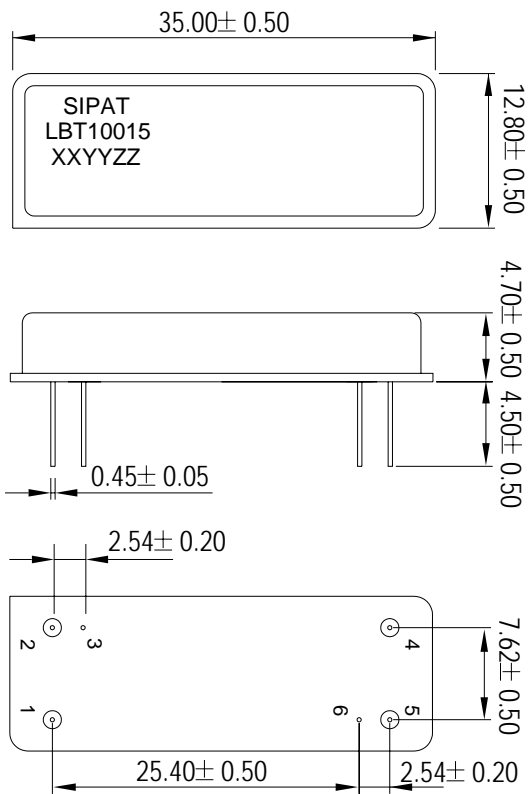
L1=47nH L2=47nH

C1=C2=47pF

Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 1

Output 5

Ground All Others

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBT10015: Part Number
- 3)XXYY: Date Code
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm

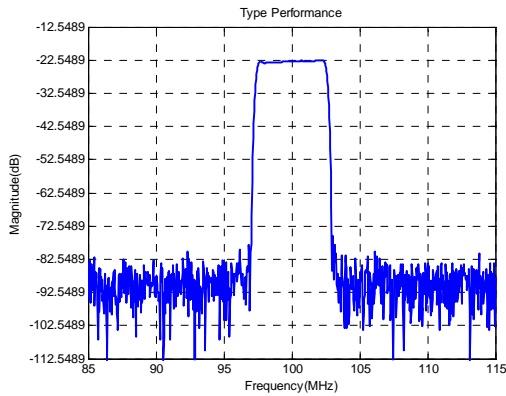


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Chongqing, China, 400060

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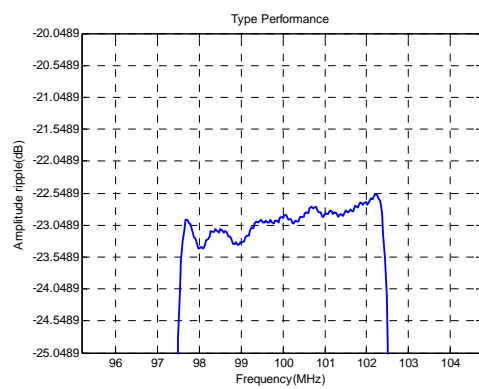
Typical Performance

Frequency Respond



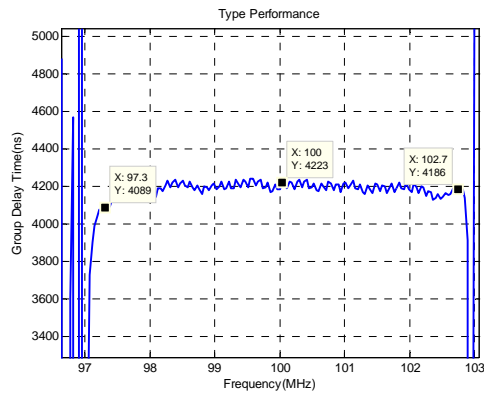
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



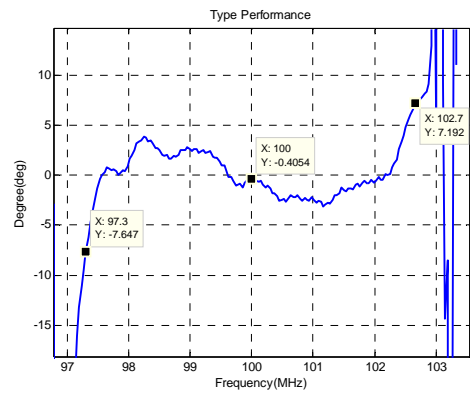
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



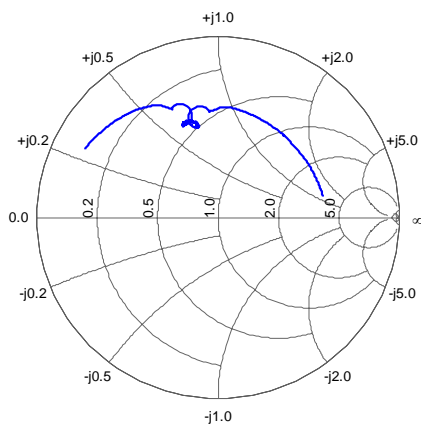
Horizontal: 1MHz/Div Vertical: 200ns/Div

Phase Linearity

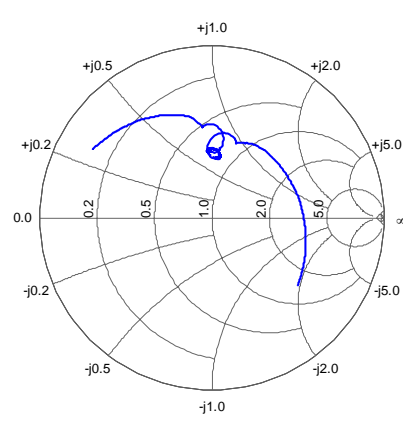


Horizontal: 1MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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