Features

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

Specifications

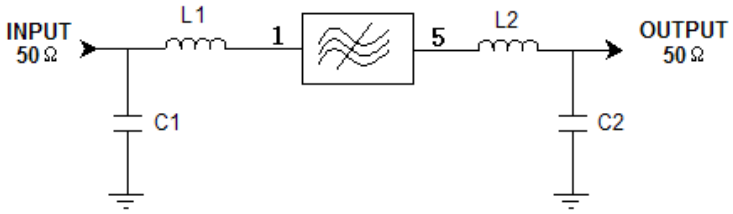
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	99.85	100	100.15
Insertion Loss	dB	-	22.5	26
3dB Bandwidth	MHz	5.05	5.08	-
30dB Bandwidth	MHz	-	5.75	5.8
45dB Bandwidth	MHz		5.88	6.2
50dB Bandwidth	MHz		5.91	6.8
Passband Variation	dB	-	0.9	1.2
Absolute Delay	usec	-	4.2	4.5
Ultimate Rejection(f0±7.5MHz)	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.

Matching Configuration

手动测试座



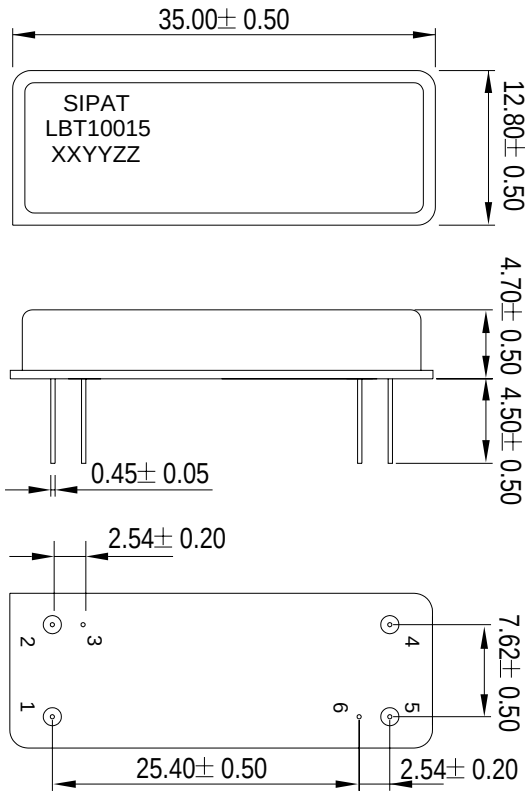
L1=47nH L2=47nH

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

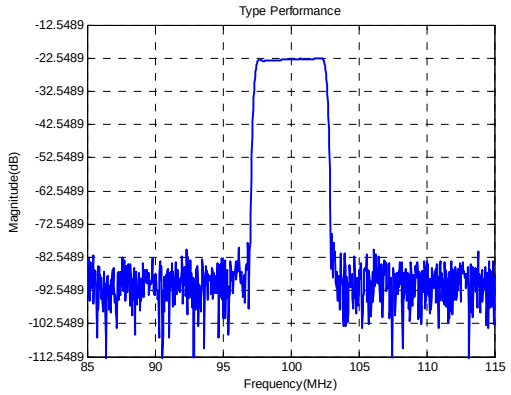
Marking Configuration:

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

Package: DIP3512 **Unit: mm**

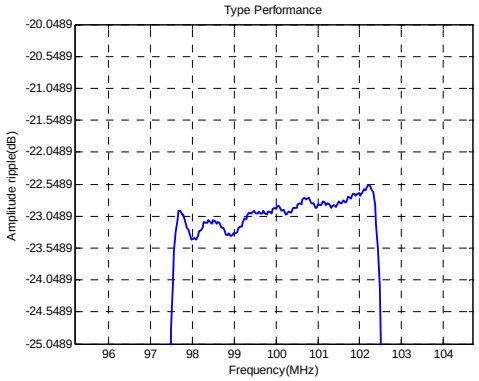
Typical Performance

Frequency Respond



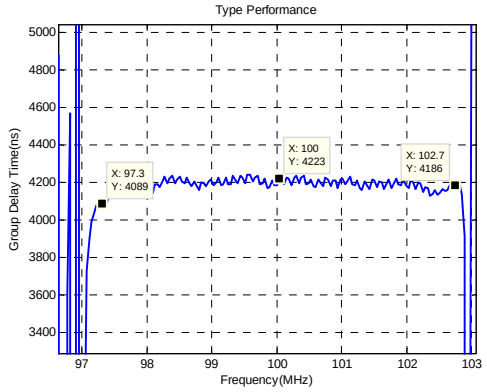
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



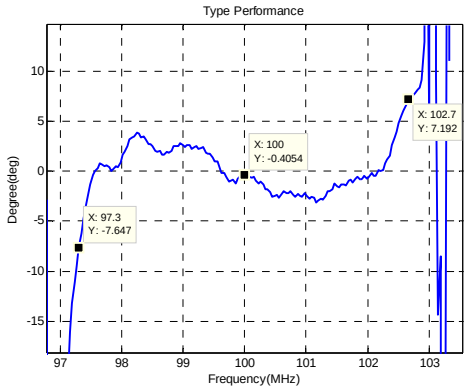
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



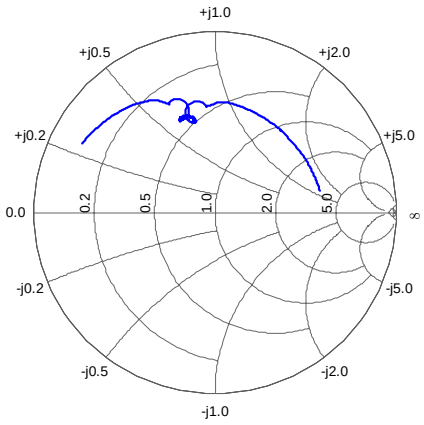
Horizontal: 1MHz/Div Vertical: 200ns/Div

Phase Linearity



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

Smith Chart S11



Smith Chart S22

