



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	119.85	120	120.15
Insertion Loss	dB	-	25.1	28
3dB Bandwidth	MHz	9	9.09	-
35dB Bandwidth	MHz	-	9.82	9.9
45dB Bandwidth	MHz	-	9.90	10.2
Passband Variation	dB	-	0.5	1.2
Ultimate Rejection($F0 \pm 9.5\text{MHz}$)	dB	50	60	-
Absolute Delay	usec	-	3.99	-
Material Temperature coefficient	KHz/°C	-2.16		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-25	-	+85
Storage Temperature Range	°C	-45	-	+125
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	DIP3512			

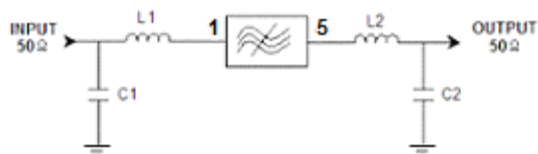
Notes:

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	LBT12047	
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Matching Configuration

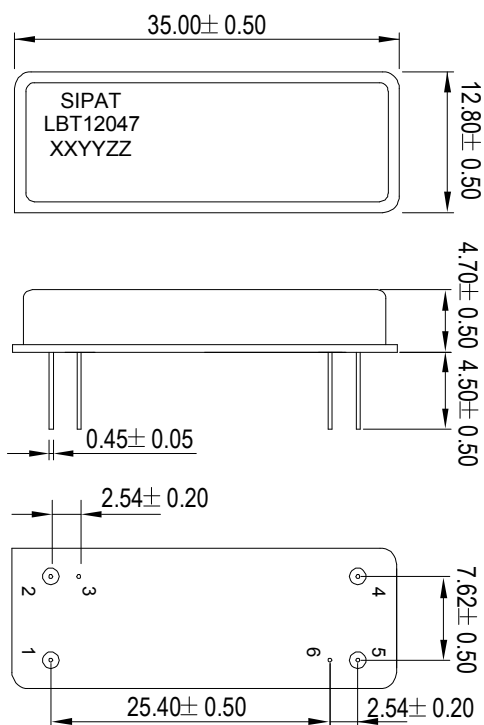
手动测试座



L1=47nH L2=47nH
C1=39pF 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 2,3,4,6

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBT12047: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm

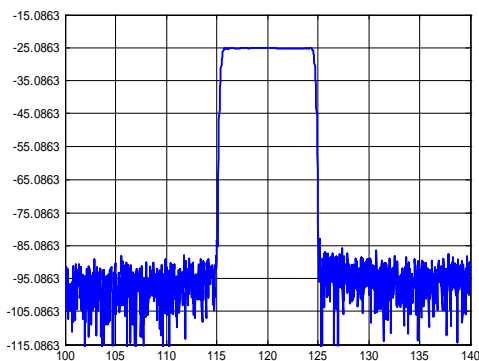


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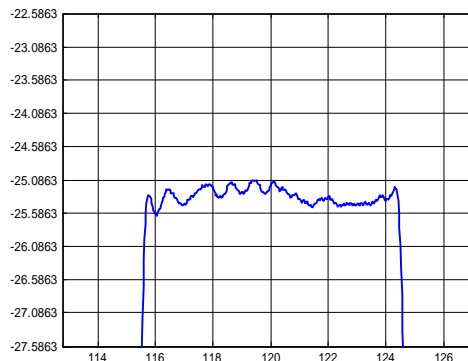
Typical Performance

Frequency Response



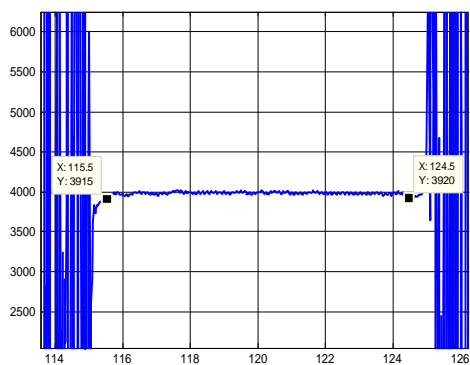
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



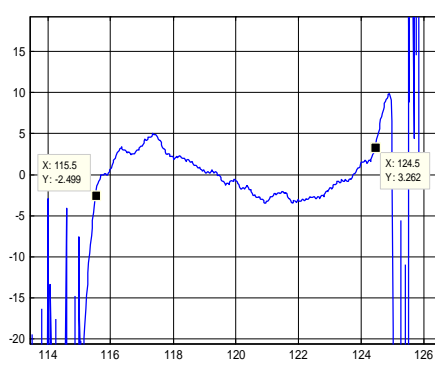
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Group Delay Variation



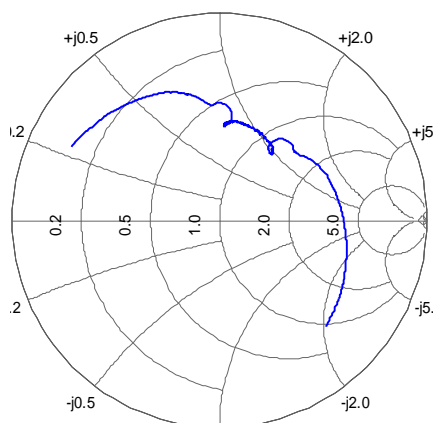
Horizontal: 2MHz/Div Vertical: 500ns/Div

Phase Linearity

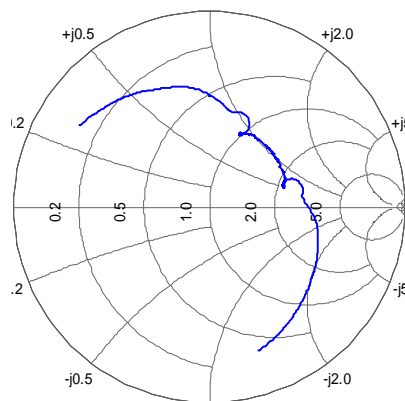


Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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