Features

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

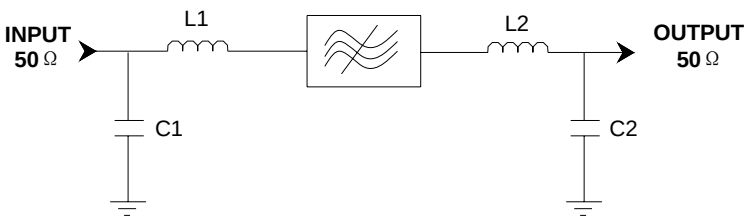
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	119.875	120	120.125
Insertion Loss	dB	-	25	26
1 dB Bandwidth	MHz	4.4	4.48	-
30 dB Bandwidth	MHz	-	5.51	5.6
40 dB Bandwidth	MHz	-	5.63	6.4
Passband Variation	dB	-	0.4	1
Absolute Delay	usec	-	2.76	2.78
Ultimate Rejection	dB	45	48	-
Material Temperature coefficient	KHz/°C		0.12	
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			DIP3512 (35.0x12.8x4.7mm3)	

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.

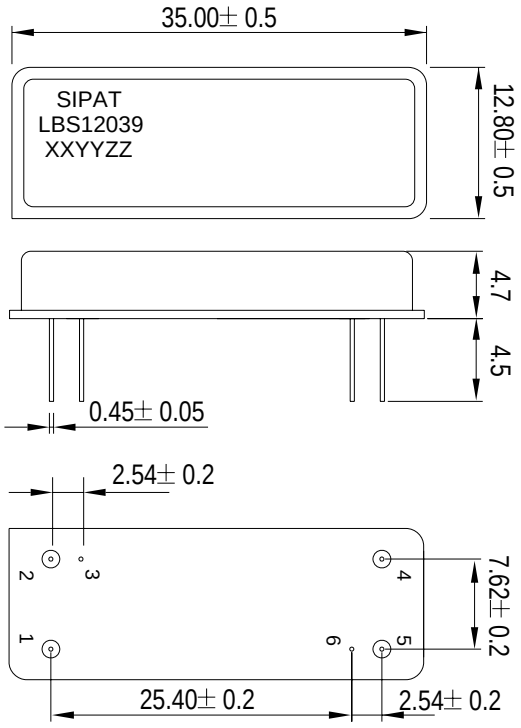
Matching Configuration



L1=150nH L2=100nH
C1=33pF C2=39pF
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

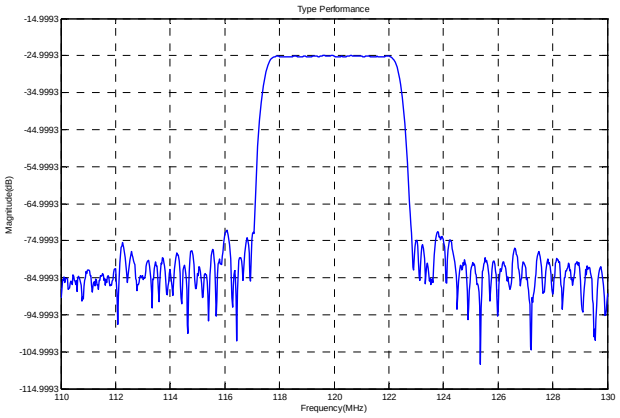
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBS12039: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP3512 **Unit: mm**

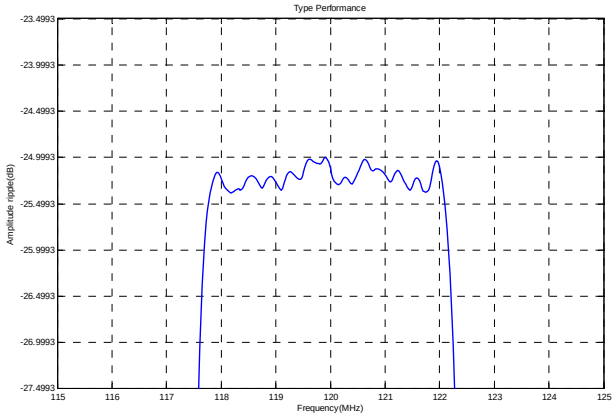
Typical Performance

Frequency Respond



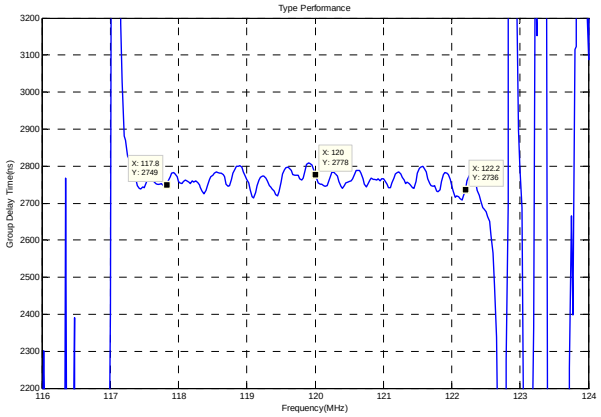
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Respond



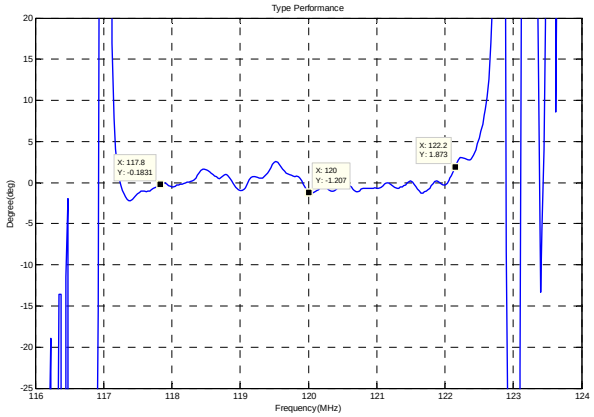
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±2.2MHz)



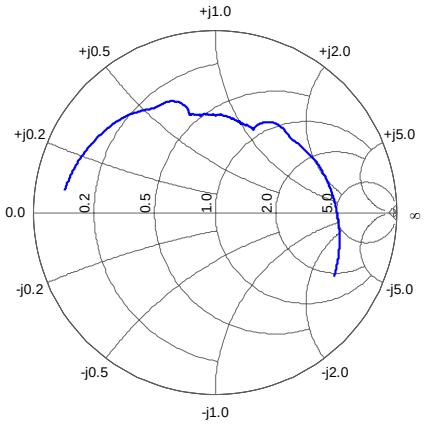
Horizontal: 1MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±2.2MHz)



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

Smith Chart S11



Smith Chart S22

