Features

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

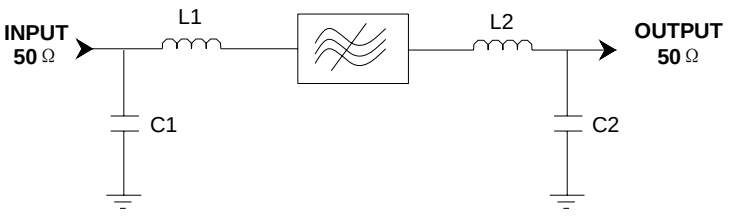
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	114.92	115	115.08
Insertion Loss	dB	22	24	26
3 dB Bandwidth	MHz	9.9	9.98	10.3
40dB Bandwidth	MHz	-	11.27	11.35
50 dB Bandwidth	MHz	-	11.38	12
Passband Variation	dB	-	0.7	1
Absolute Delay	usec	-	3.3	3.5
Group Delay Variation(f0±4.5MHz)	nsec	-	80	300
Ultimate Rejection	dB	50	60	-
Material Temperature coefficient	KHz/°C	-2.07		
Substrate Material	-	112LT		
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	DIP2212 (22.2x12.8x4.7mm3)			

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



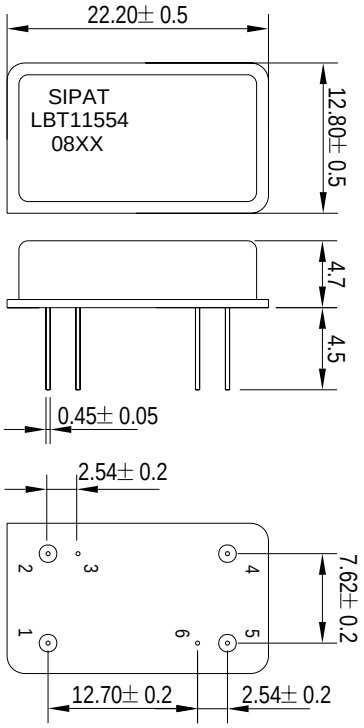
L1=L2=82nH

C1=C2=36pF

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

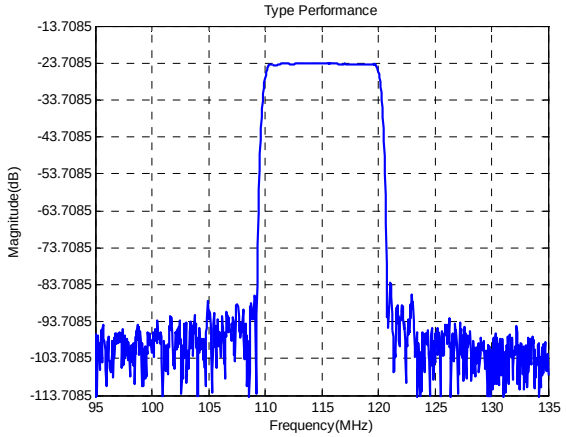
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBT11554: Part Number
3) 08XX: Date Code

Package: DIP2212 **Unit: mm**

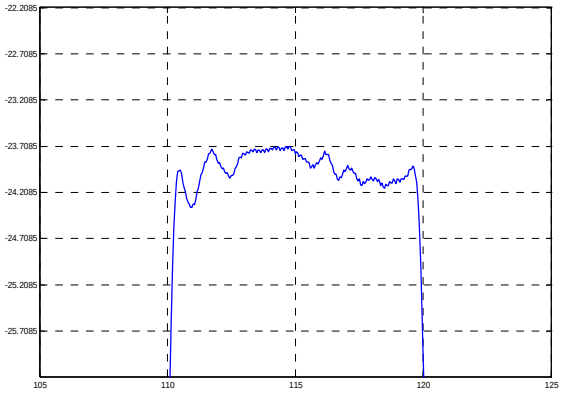
Typical Performance

Frequency Respond



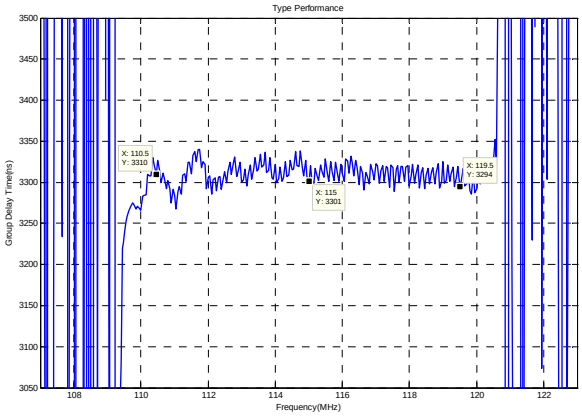
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



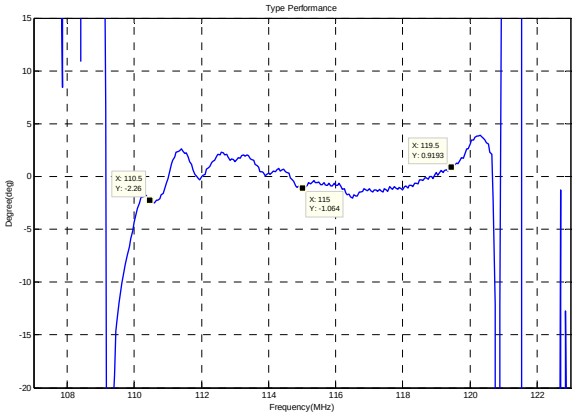
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±4.5MHz)



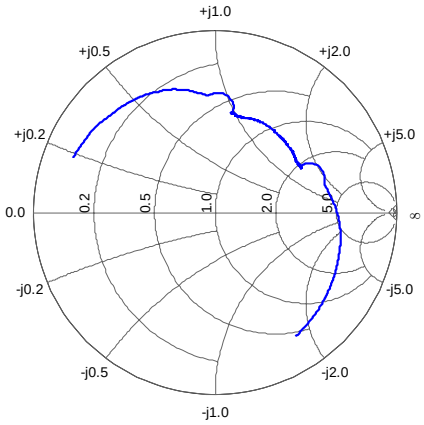
Horizontal: 2MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±4.5MHz)



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

Smith Chart S11



Smith Chart S22

