Features

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

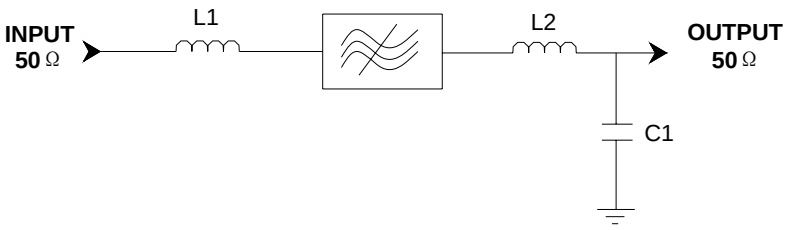
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	159.7	160	160.3
Insertion Loss	dB	-	32.8	34
1.5 dB Bandwidth	MHz	73	73.16	-
25 dB Bandwidth	MHz	-	75.52	76
Passband Variation	dB	-	1	1.5
Absolute Delay	usec	-	1.43	2
Ultimate Rejection	dB	45	49	-
Material Temperature coefficient	KHz/°C	-13.12		
Substrate Material	-	128LN		
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.

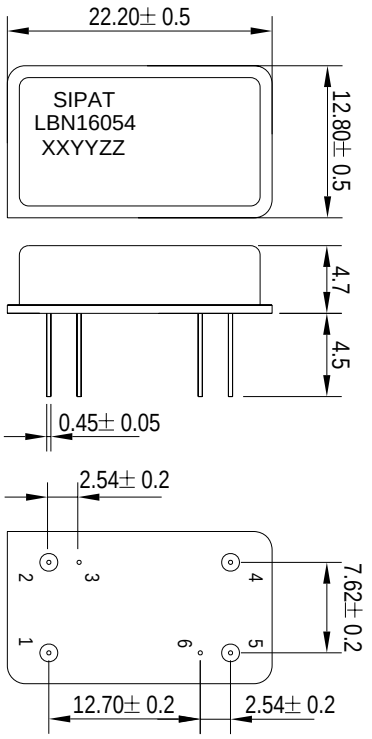
Matching Configuration



L1=47nH L2=33nH
C1=27pF
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

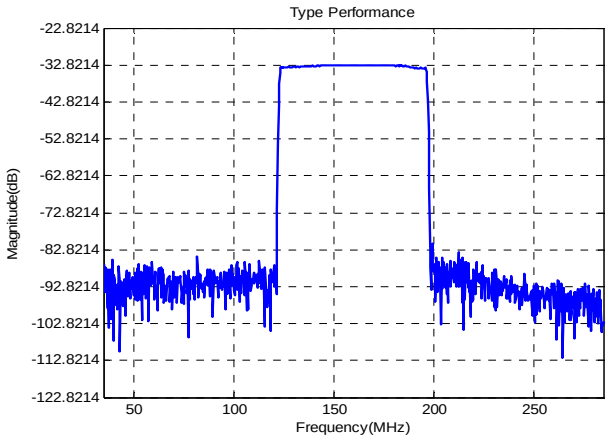
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBN16054: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP2212 **Unit: mm**

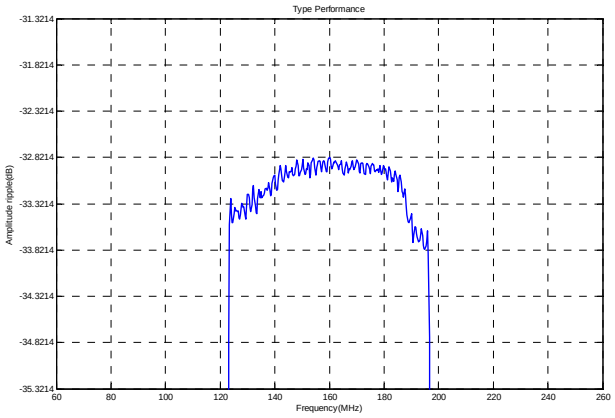
Typical Performance

Frequency Respond



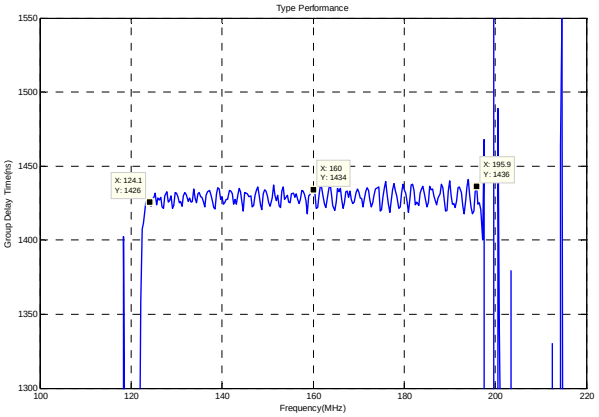
Horizontal: 50MHz/Div Vertical: 10dB/Div

Passband Respond



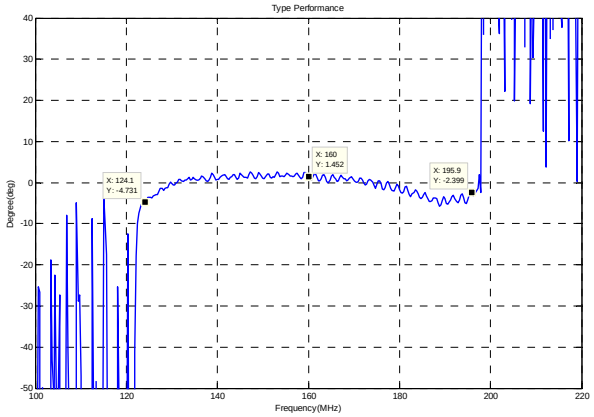
Horizontal: 20MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±36MHz)



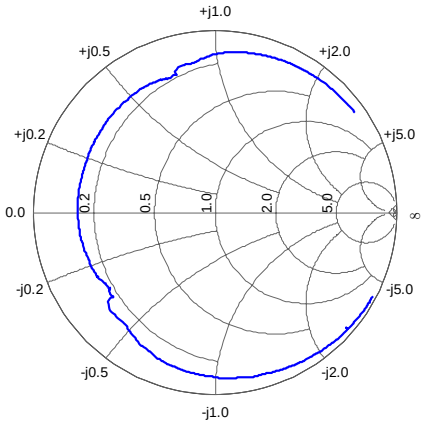
Horizontal: 20MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±36MHz)



Horizontal: 20MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22