Features

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

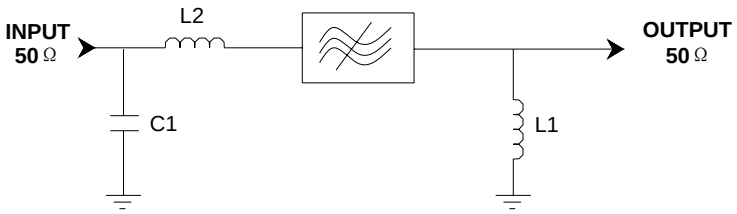
Specifications

Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	140	-
Insertion Loss		dB	-	28.6	30
2 dB Bandwidth		MHz	75	77.15	-
3 dB Bandwidth		MHz	76	77.87	-
35 dB Bandwidth		MHz	-	84.19	85
Passband Variation		dB	-	0.8	2
Absolute Delay		usec	-	1.06	-
Ultimate Rejection	*@f0±40MHz*	dB	-	8	-
	@f0±50MHz	dB	35	40	-
Material Temperature coefficient		KHz/°C	-13.16		
Substrate Material		-	YZ LN		
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.

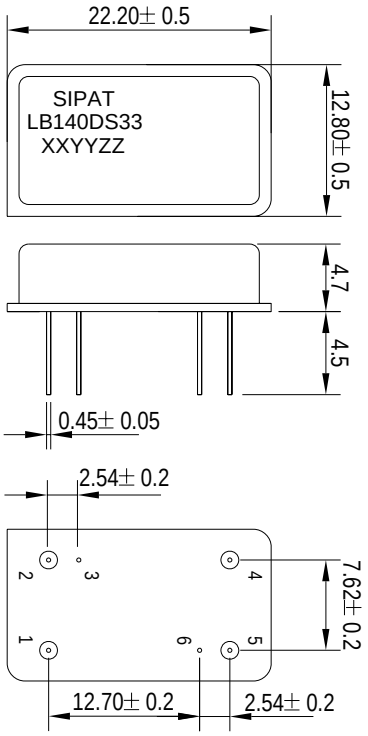
Matching Configuration



L1=18nH L2=5nH
C1=39pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



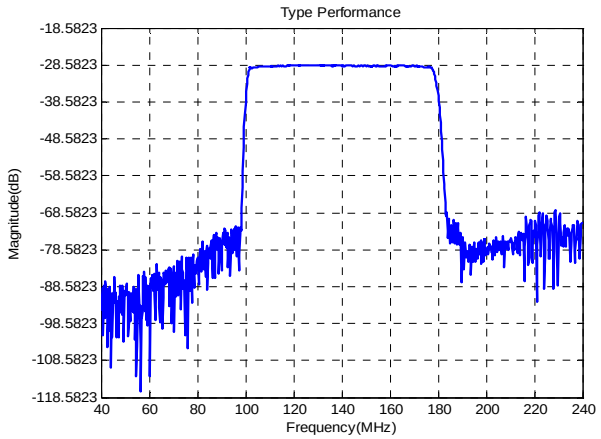
Pad Configuration:
Input: 1
Output: 5
Ground: All Others

Marking Configuration:
1) SIPAT: Manufacturer Name
2) LB140DS33: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP2212 **Unit: mm**

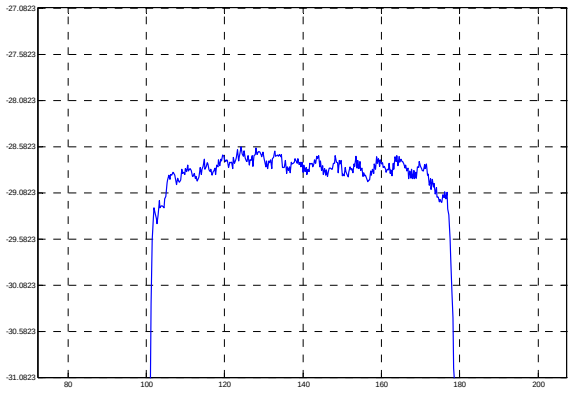
Typical Performance

Frequency Respond



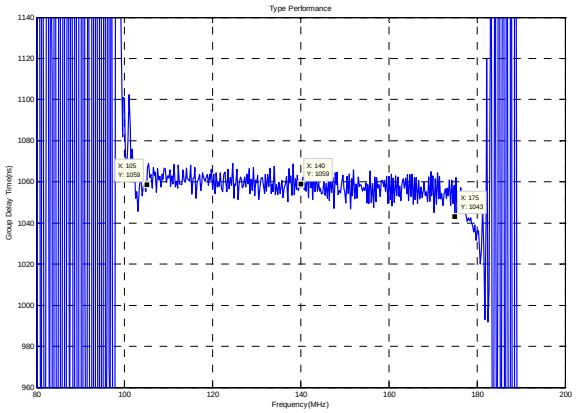
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Respond



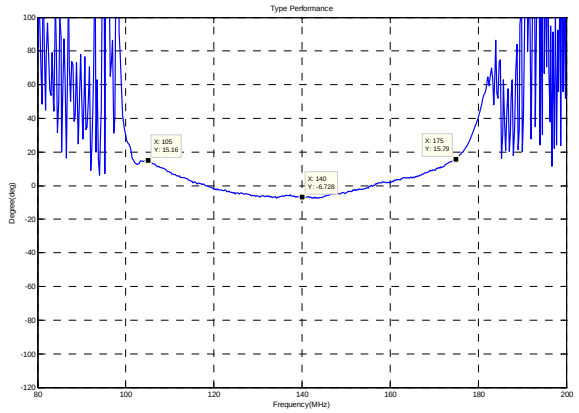
Horizontal: 20MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±35MHz)



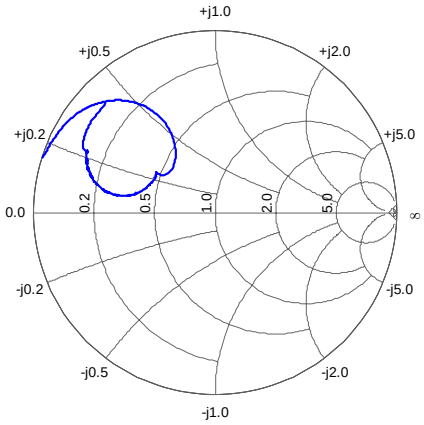
Horizontal: 20MHz/Div Vertical: 20ns/Div

Phase Linearity(f0±35MHz)



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

Smith Chart S11



Smith Chart S22

