Features

- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package
- ✧ No matching required for operation at 50Ω
- ✧ RoHS compliant (2002/95/EC), Pb-free

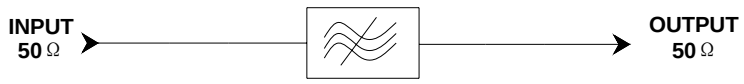
Specifications

Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	139.85	140	140.15
Insertion Loss		dB	-	30	32
1.5 dB Bandwidth		MHz	-	24.43	-
3 dB Bandwidth		MHz	24.55	24.57	-
Passband Variation		dB	-	0.8	1.5
Absolute Delay		usec	-	3.37	-
Ultimate Rejection	*f0±12.7MHz*	dB	35	37	-
	f0±12.9MHz	dB	45	52	-
	f0±13.3MHz	dB	49	51	-
	f0±17.3MHz	dB	52	53	-
	f0±22.3MHz	dB	52	53	-
Material Temperature coefficient		KHz/°C	-13.2		
Substrate Material		-	YZ LN		
Ambient Temperature		°C	25		
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.

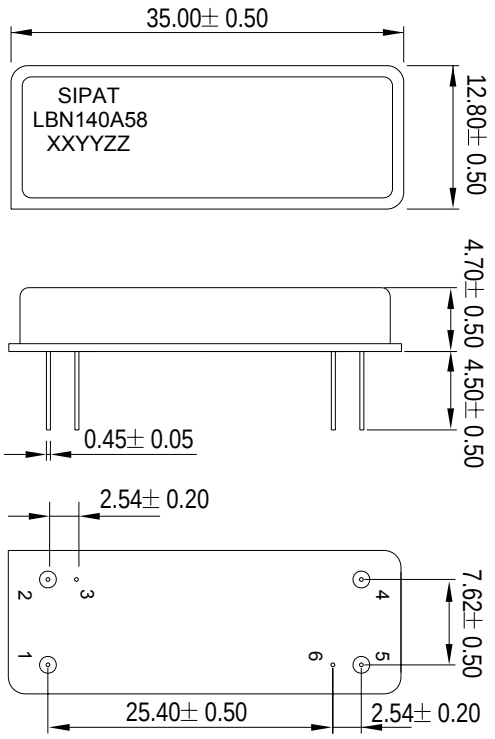
Matching Configuration



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

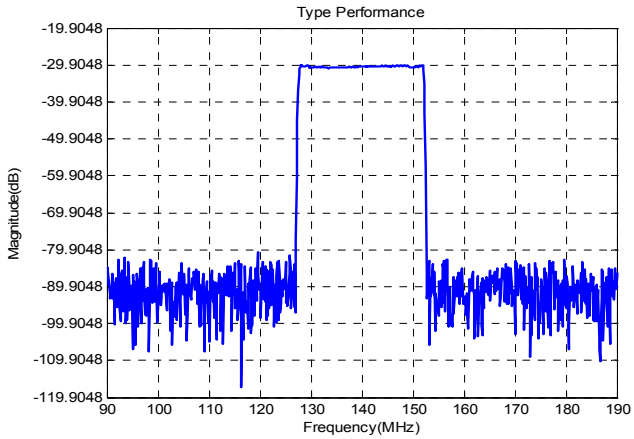
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBN140A58: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP3512 **Unit: mm**

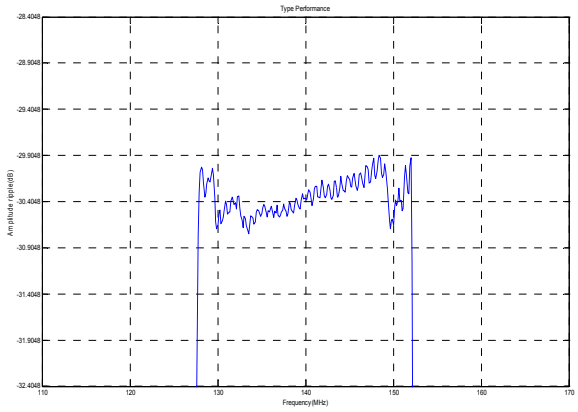
Typical Performance

Frequency Response



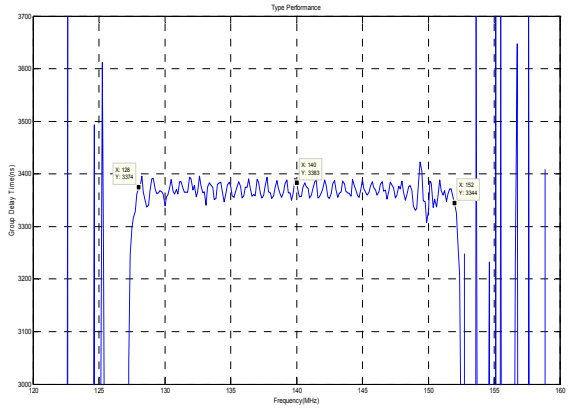
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Response



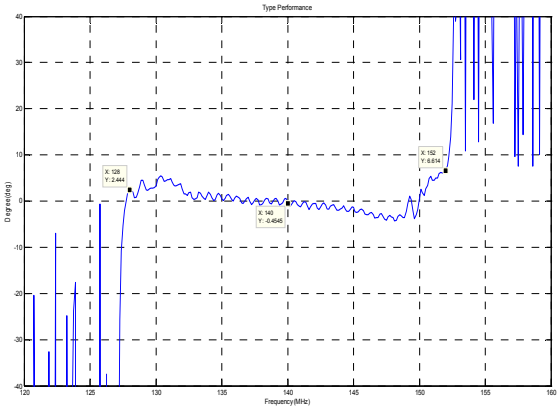
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±12MHz)



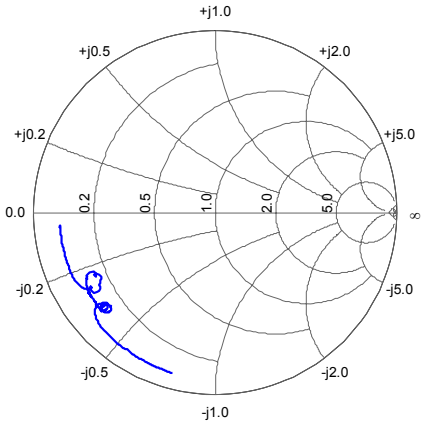
Horizontal: 5MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±12MHz)



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

Smith Chart S11



Smith Chart S22

