Features

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

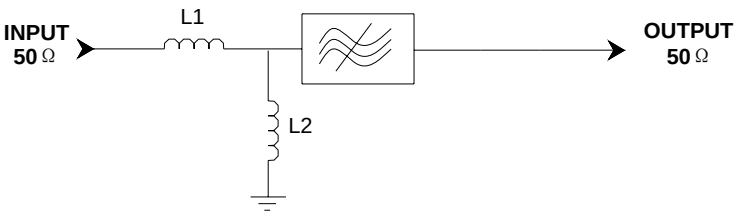
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.875	140	140.125
Insertion Loss	dB	-	25.5	28
2 dB Bandwidth	MHz	25	25.09	-
3 dB Bandwidth	MHz	-	25.2	-
20 dB Bandwidth	MHz	-	25.8	26
30 dB Bandwidth	MHz	-	25.96	26.2
40 dB Bandwidth	MHz	-	26.1	26.8
Passband Variation	dB	-	1	2
Absolute Delay	usec	-	2.72	2.75
Ultimate Rejection	dB	40	53	-
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	DIP2712 (27.0x12.8x4.7mm3)			

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.

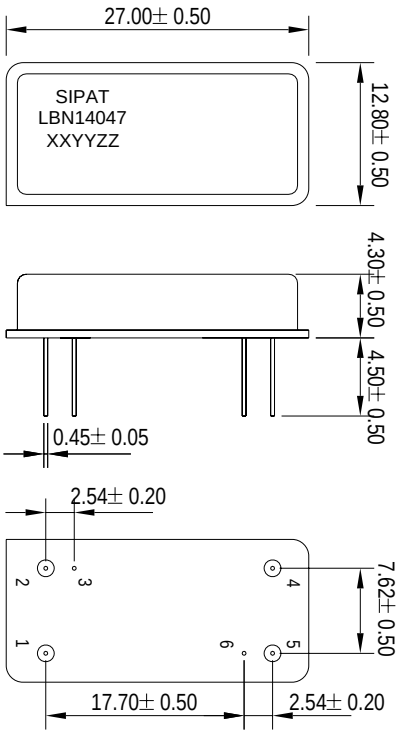
Matching Configuration



L1=56nH L2=68nH
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

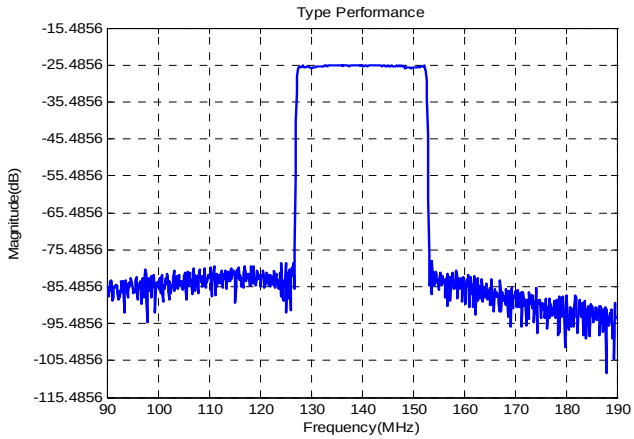
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBN14047: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP2712 **Unit: mm**

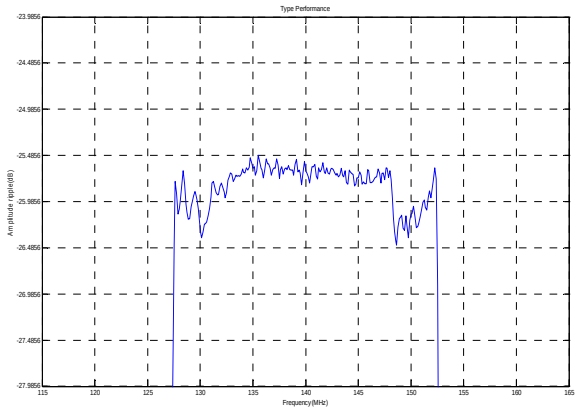
Typical Performance

Frequency Respond



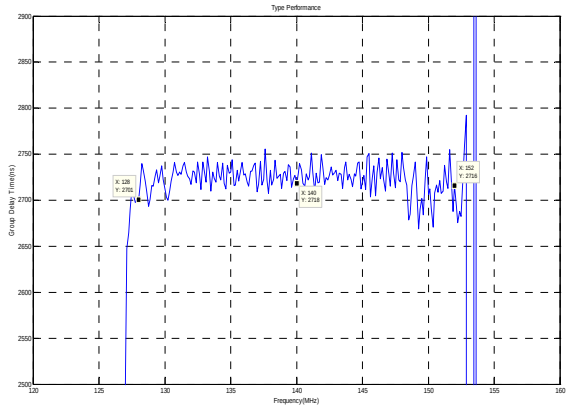
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



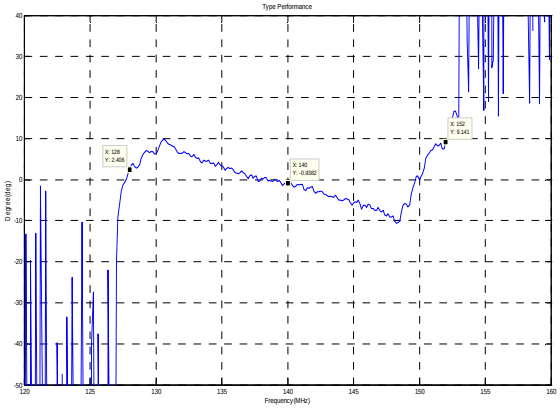
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±12MHz)



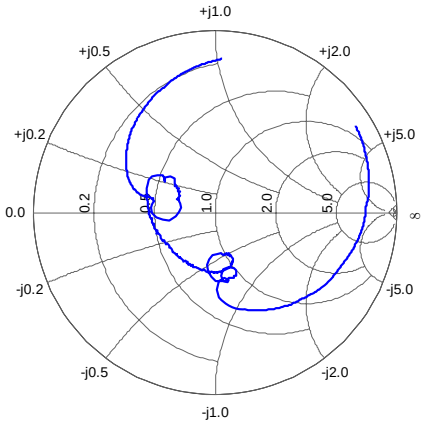
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±12MHz)



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

Smith Chart S11



Smith Chart S22