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

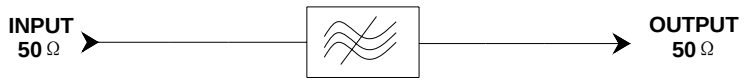
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	106.85	107	107.15
Insertion Loss	dB	-	21.7	30
3 dB Bandwidth	MHz	6.55	6.62	6.65
35 dB Bandwidth	MHz	-	7.42	7.6
40 dB Bandwidth	MHz	-	7.48	-
45 dB Bandwidth	MHz	-	7.53	8
50 dB Bandwidth	MHz	-	7.58	8.8
55 dB Bandwidth	MHz	-	7.63	16.8
Passband Variation	dB	-	1	1.5
Absolute Delay	usec	-	3.1	4
Ultimate Rejection(f0±18.3MHz)	dB	53	60	-
Material Temperature coefficient	KHz/°C		10.1	
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			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.

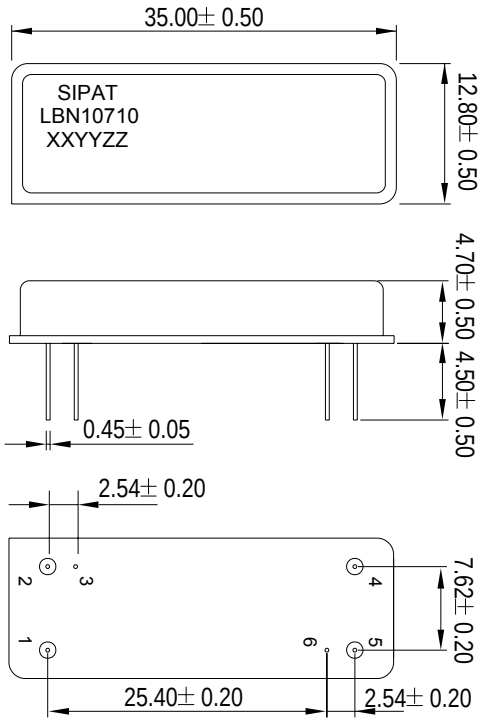
Matching Configuration



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

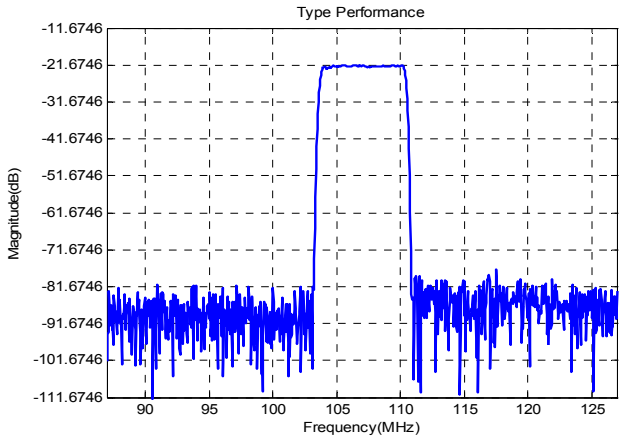
Marking Configuration:

1) SIPAT: Manufacturer Name
2) LBN10710: Part Number
3) XXYY: Date(Year/month)
4) ZZ: Identified Code

Package: DIP3512 **Unit: mm**

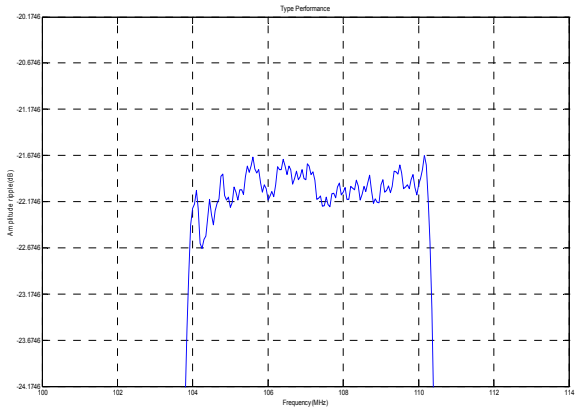
Typical Performance

Frequency Response



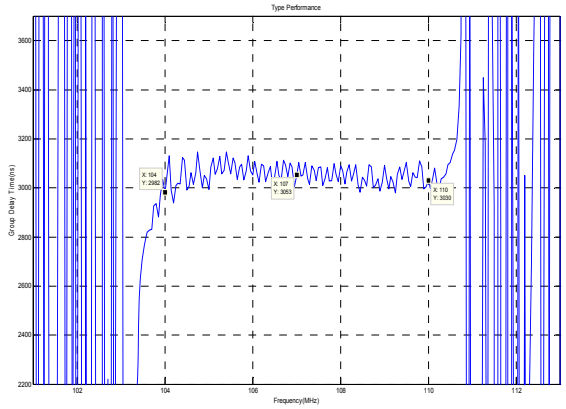
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



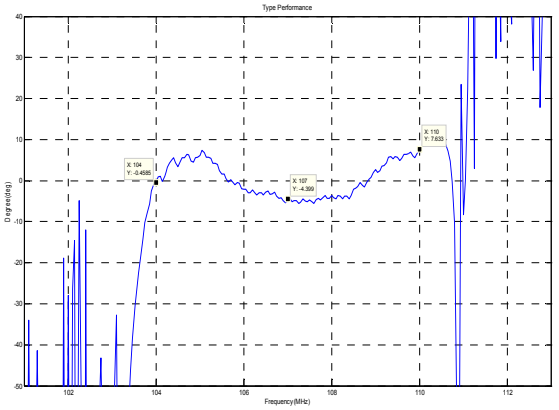
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±3MHz)



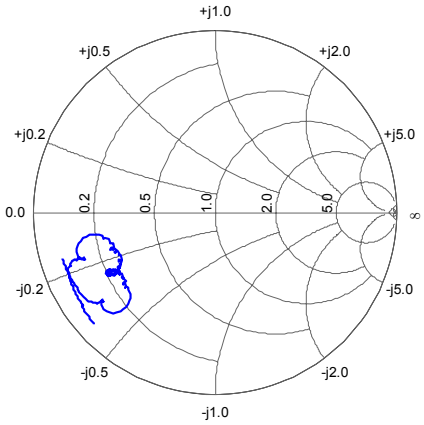
Horizontal: 2MHz/Div Vertical: 200ns/Div

Phase Linearity(f0±3MHz)



Horizontal: 2MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22

