Features

- ✧ For IF Low-loss SAW filter
- ✧ Single-ended operation
- ✧ Small size
- ✧ RoHS compliant (2002/95/EC), Pb-free

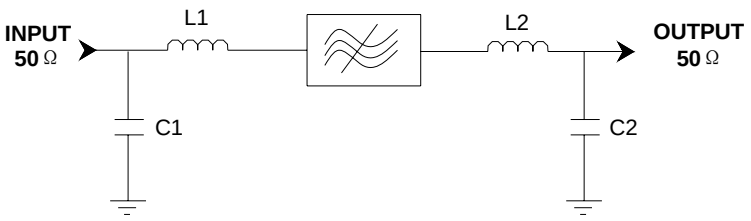
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	79.7	80	80.3
Insertion Loss	dB	-	8	10
1 dB Bandwidth	MHz	10	11.11	-
3 dB Bandwidth	MHz	-	12.34	-
Passband Variation	dB	-	0.8	1
Absolute Delay	usec	-	0.97	-
Ultimate Rejection(f0±11MHz)	dB	40	42	-
Material Temperature coefficient	KHz/°C	-7.52		
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	-	1		
Package Size	SMD13.3*6.5A			

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.

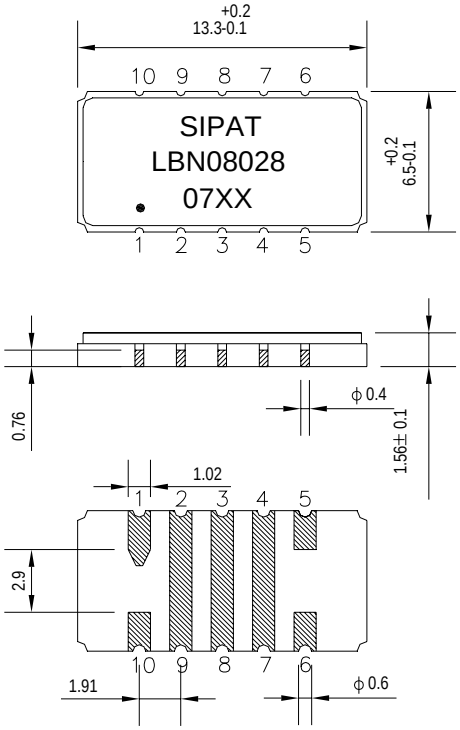
Matching Configuration



L1=(180+39)nH L2=(150+22)nH
C1=27pF C2=36pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 10
Output 5
Ground All Others

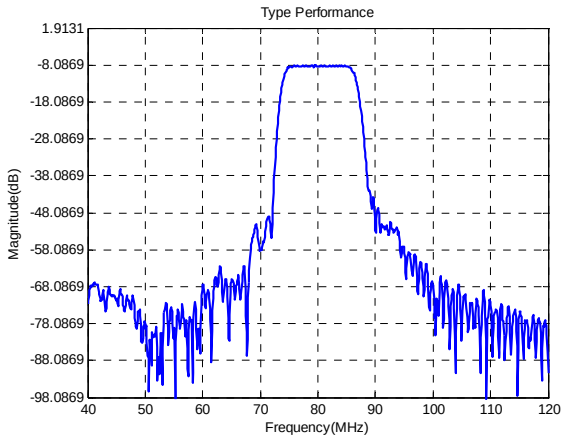
Marking Configuration:

1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) LBN08028: Part Number
4) 07XX: Date Code

Package: SMD13.3*6.5A **Unit: mm**

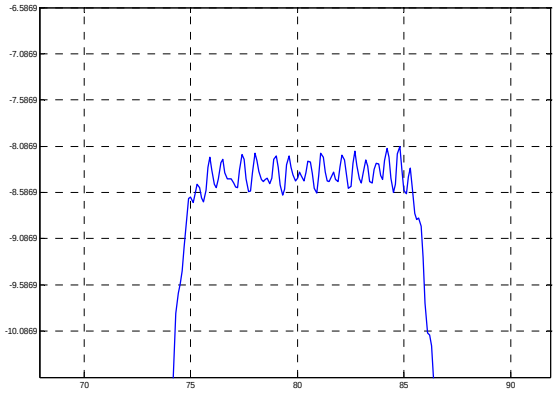
Typical Performance

Frequency Respond



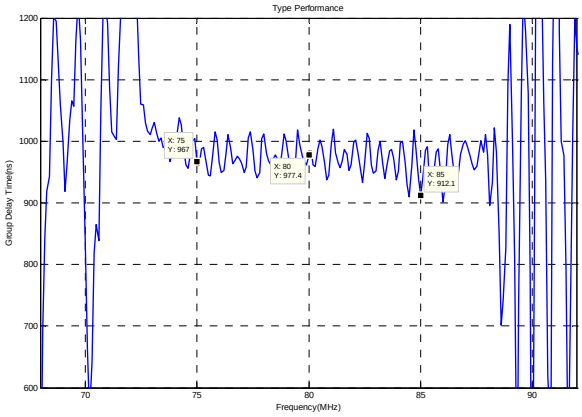
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



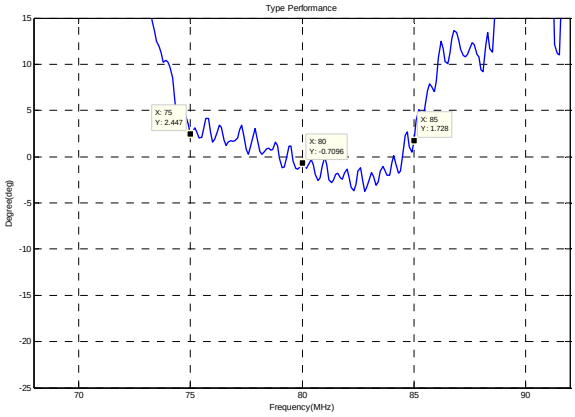
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±5MHz)



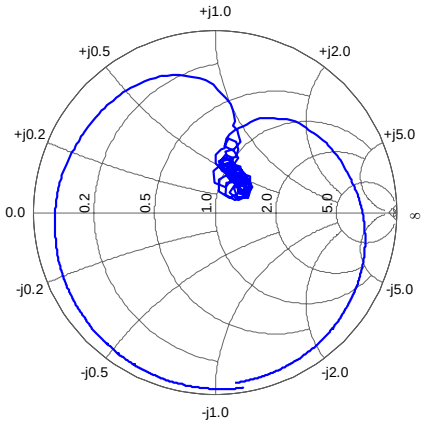
Horizontal: 5MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±5MHz)



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

Smith Chart S11



Smith Chart S22