Features

- ✧ For RF SAW filter
- ✧ Ceramic Surface Mount Package
- ✧ Small size
- ✧ RoHS compliant (2002/95/EC), Pb-free
- ✧ No matching required for operation at 50Ω
- ✧ Single-ended operation

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	162.2	-
Insertion Loss	dB	-	2	5
3 dB Bandwidth	MHz	1	2.81	-
Passband Variation(f0±0.5MHz)	dB	-	0.3	1
Absolute Delay	usec	-	0.55	-
Ultimate Rejection(f0±5.2MHz)	dB	-	38	-
Material Temperature coefficient	KHz/°C	-5.19		
Substrate Material	-	36LT		
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	SMD9.1*7.1			

Notes:

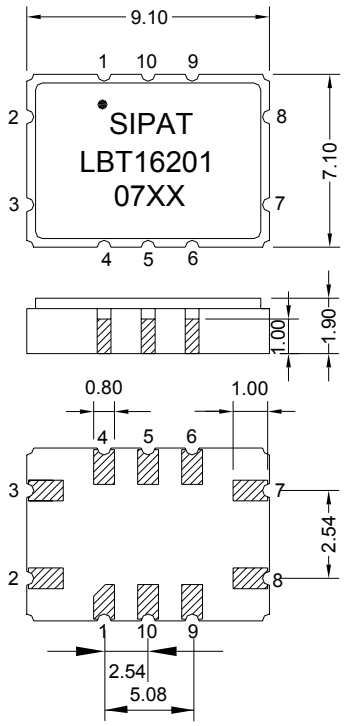
1. All specifications are based on the test circuit shown;
2. In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing 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 6
Ground All Others

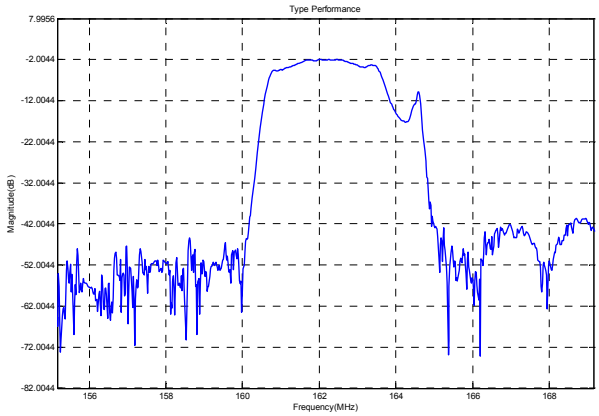
Marking Configuration:

1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) LBT16201: Part Number
4) 07XX: Date Code

Package: SMD9.1*7.1 **Unit: mm**

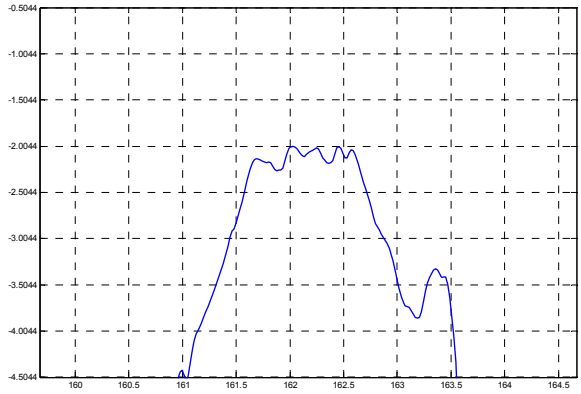
Typical Performance

Frequency Respond



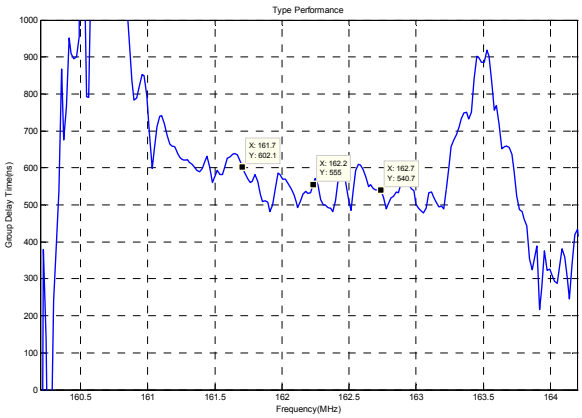
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Respond



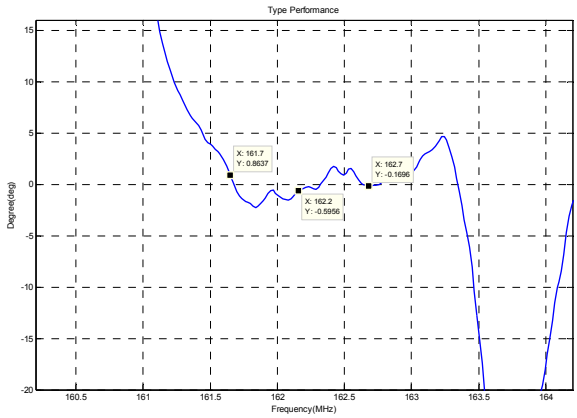
Horizontal: 0.5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±0.5MHz)



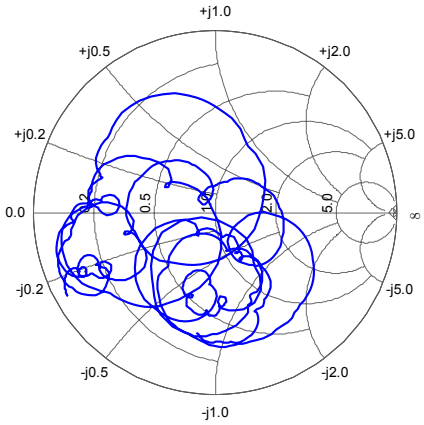
Horizontal: 0.5MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±0.5MHz)



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

Smith Chart S11



Smith Chart S22