Features

- ✧ For IF SAW filter
- ✧ Single-ended operation
- ✧ Ceramic Surface Mount Package
- ✧ Small size
- ✧ RoHS compliant (2002/95/EC), Pb-free

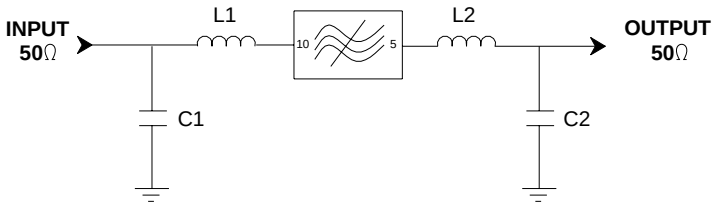
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	114.85	115	115.15
Insertion Loss	dB	-	26.3	27
1.2 dB Bandwidth	MHz	-	9.34	-
3 dB Bandwidth	MHz	9.4	9.53	-
30 dB Bandwidth	MHz	-	10.34	10.4
Passband Variation	dB	-	0.9	1.2
Absolute Delay	usec	-	2.2	2.4
Ultimate Rejection	dB	30	32	-
Material Temperature coefficient	KHz/°C	-2.1		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-25	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	SMD20*9.8			

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.

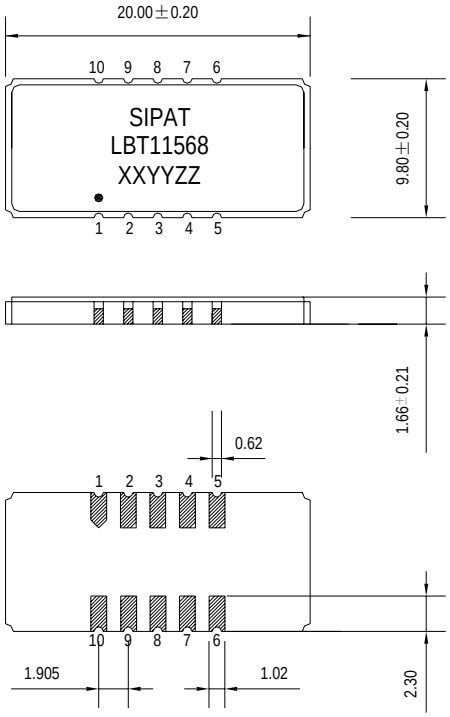
Matching Configuration



L1=100nH L2=56nH
C1=18pF C2=27pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



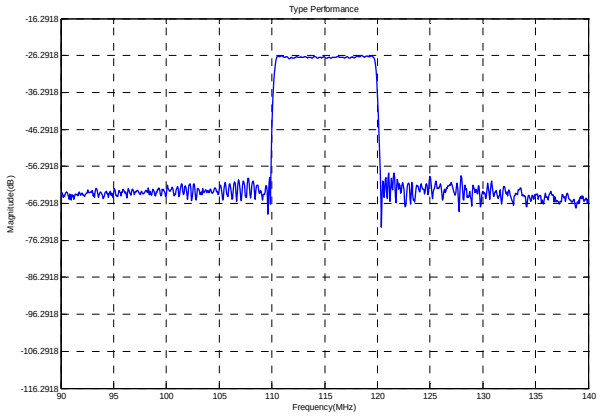
Pad Configuration:
Input: 10
Output: 5
Ground: 1,2,3,4,6,7,8,9

Marking Configuration:
1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) LBT11568: Part Number
4) XXYY: Date(Year/month)
5) ZZ: Identified Code

Package: SMD20*9.8 **Unit: mm**

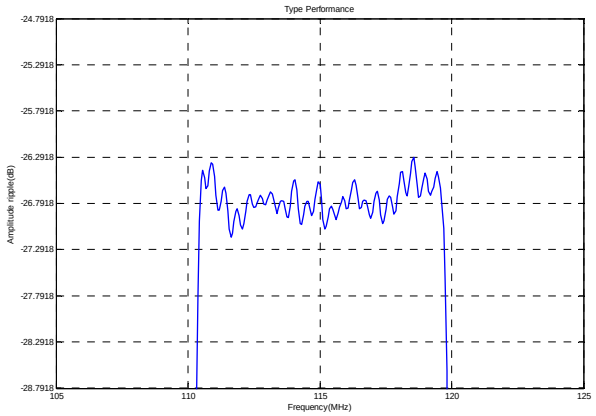
Typical Performance

Frequency Response



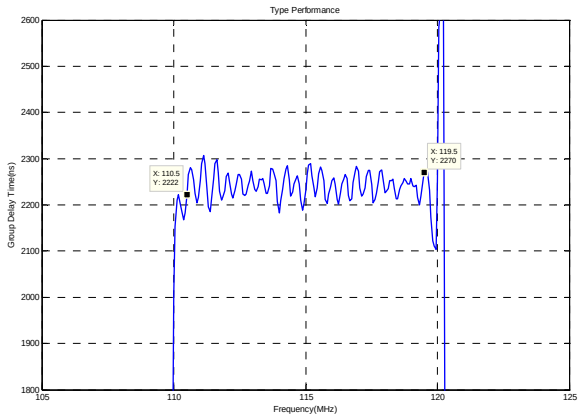
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Response



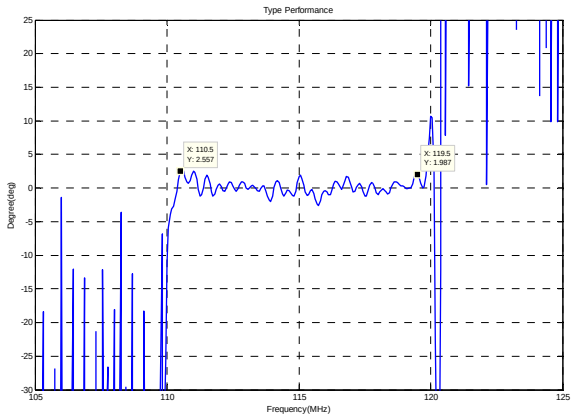
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±4.5MHz)



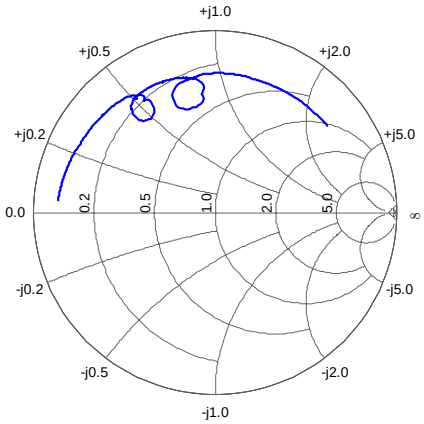
Horizontal: 5MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±4.5MHz)



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

Smith Chart S11



Smith Chart S22

