



Features

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

Specifications

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Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	350	-
Insertion Loss	dB	-	12.3	15
1 dB Bandwidth	MHz	9	9.49	-
3 dB Bandwidth	MHz	11	11.42	-
15 dB Bandwidth	MHz	-	15.03	15.5
40 dB Bandwidth	MHz	-	18	20
Passband Variation	dB	-	0.6	1
Group Delay Variation($f_0 \pm 5\text{MHz}$)	nsec	-	40	100
Absolute Delay	usec	-	0.6	1
Ultimate Rejection	dB	-	40	-
Material Temperature coefficient	KHz/°C	-6.3		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	SMD7.0*5.0			

Notes:

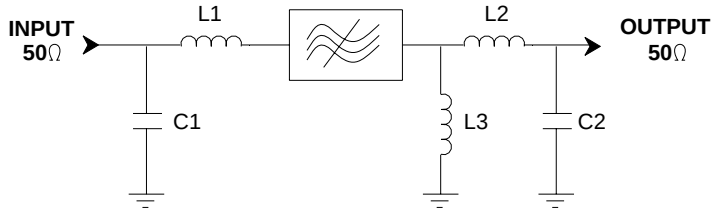
- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
- This is the optimum impedance in order to achieve the performance show.



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Part Number	LBT35007		
Rev. Date	2009-12-18		
Ver.	1.0	Page	1/3

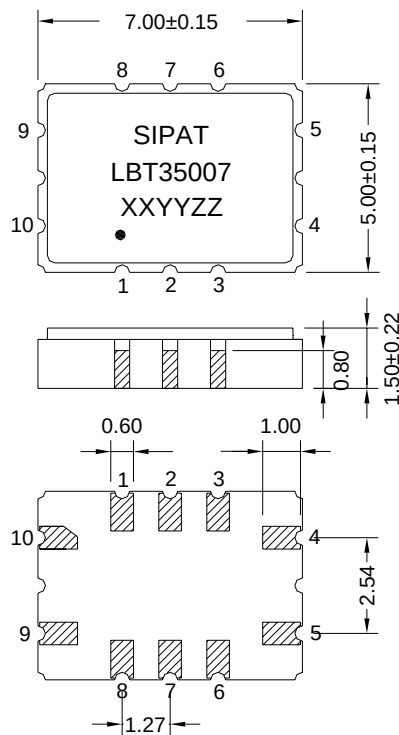
Matching Configuration



L1=27nH L2=22nH L3=150nH
C1=C2=18pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input: 9
Output: 4
Ground: All Others

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBT35007: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: SMD7.0*5.0

Unit: mm



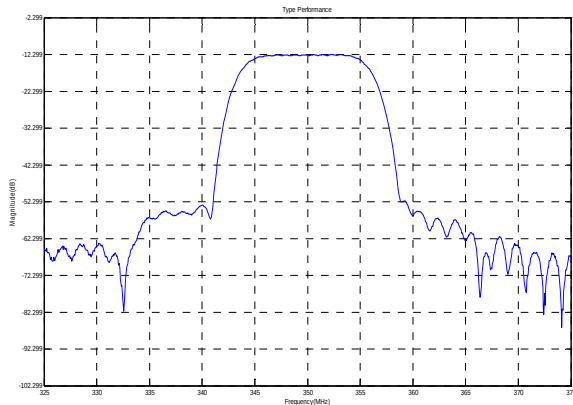
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Typical Performance

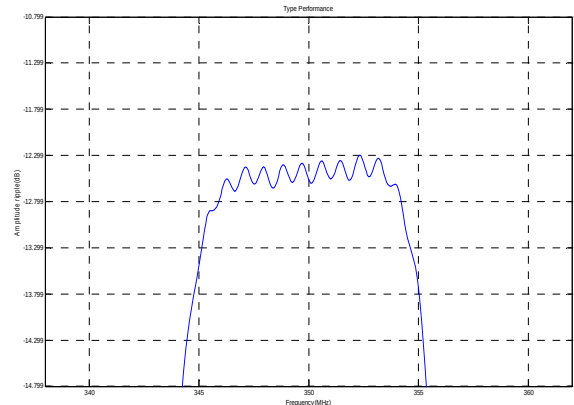
Frequency Response



Horizontal: 5MHz/Div

Vertical: 10dB/Div

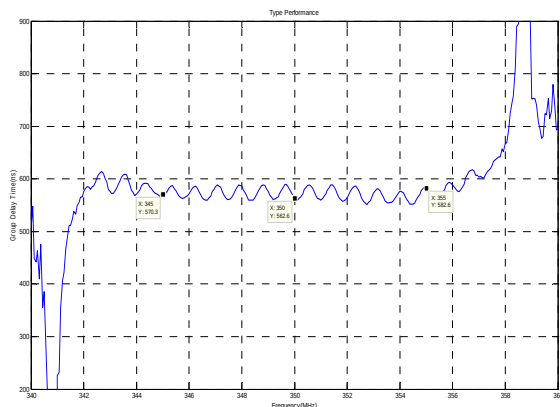
Passband Response



Horizontal: 5MHz/Div

Vertical: 0.5dB/Div

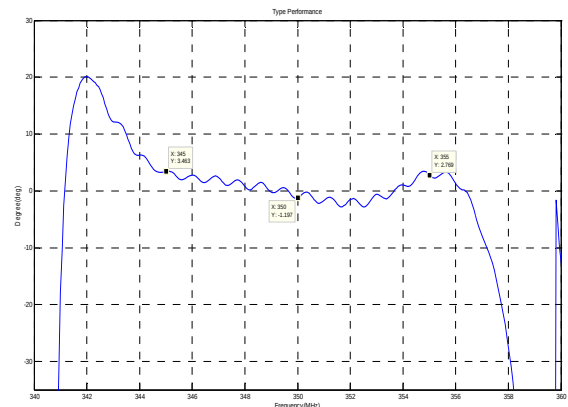
Group Delay Variation($f_0 \pm 5\text{MHz}$)



Horizontal: 2MHz/Div

Vertical: 100ns/Div

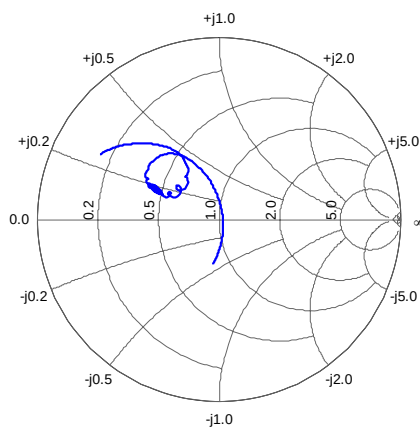
Phase Linearity($f_0 \pm 5\text{MHz}$)



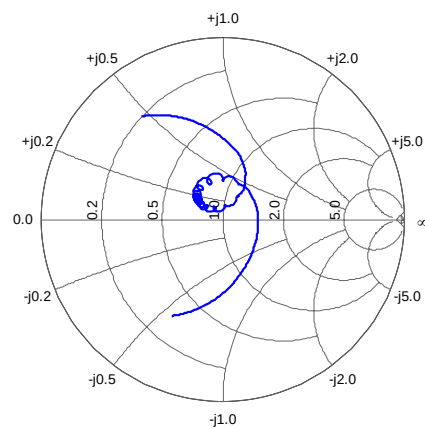
Horizontal: 2MHz/Div

Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22



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Page 3/3