



Features

- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package
- ✧ RoHS compliant (2002/95/EC), Pb-free

www.DataSheet4U.com

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	159.9	160	160.1
Insertion Loss	dB	-	23.5	25
3 dB Bandwidth	MHz	6	6.15	-
30 dB Bandwidth	MHz	-	7	7.1
45 dB Bandwidth	MHz	-	7.23	7.3
Passband Variation	dB	-	0.8	1
Absolute Delay	usec	-	3.42	3.5
Ultimate Rejection(f0±5MHz)	dB	40	60	-
Material Temperature coefficient	KHz/°C	-2.88		
Substrate Material	-	112LT		
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	DIP2712 (27.0x12.8x4.7mm3)			

Notes:

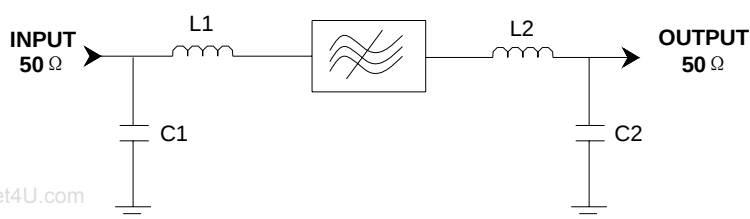
- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing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



SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBT16047		
Rev. Date	2008-02-22		
Ver.	1.0	Page	1 / 3

Matching Configuration



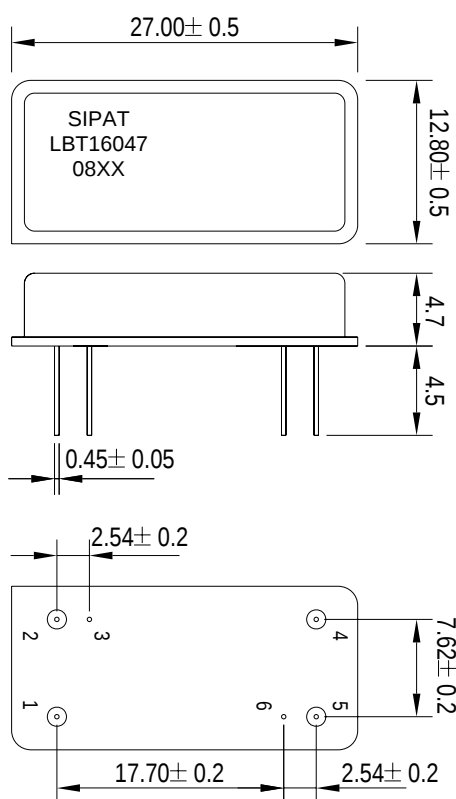
L1 = 15nH L2 = 22nH

C1 = C2 = 47pF

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) LBT16047: Part Number
3) 08XX: Date Code

Package: DIP2712

Unit: mm



SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number

LBT16047

Rev. Date

2008-02-22

Ver.

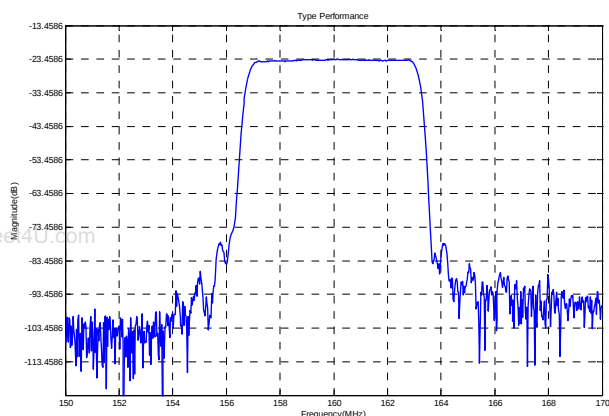
1.0

Page 2/3



Typical Performance

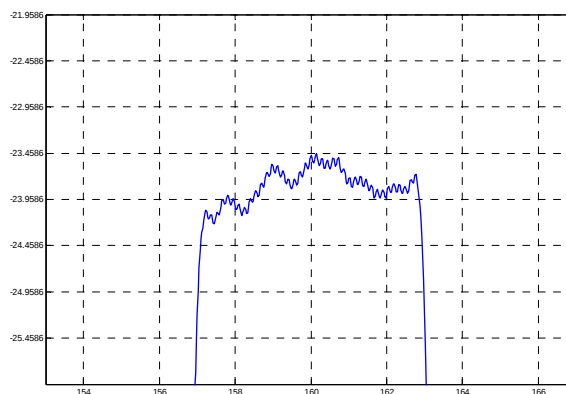
Frequency Respond



Horizontal: 2MHz/Div

Vertical: 10dB/Div

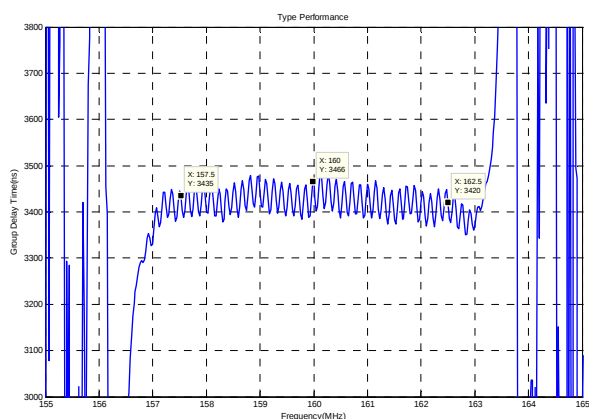
Passband Respond



Horizontal: 2MHz/Div

Vertical: 0.5dB/Div

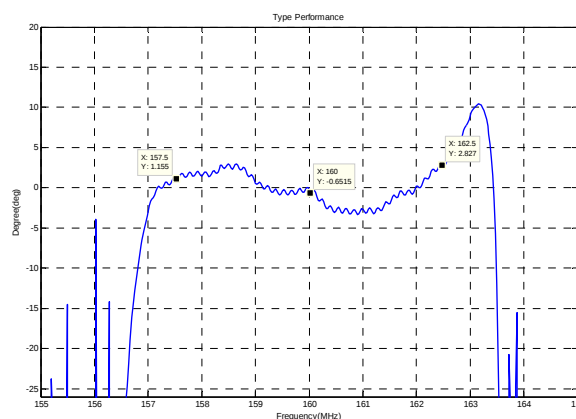
Group Delay Variation($f_0 \pm 2.5$ MHz)



Horizontal: 1MHz/Div

Vertical: 100ns/Div

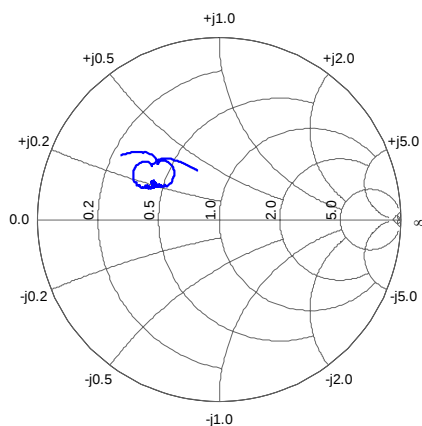
Phase Linearity($f_0 \pm 2.5$ MHz)



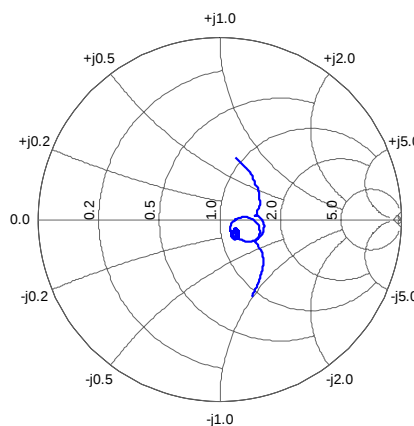
Horizontal: 1MHz/Div

Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number

LBT16047

Rev. Date

2008-02-22

Ver.

1.0

Page 3/3