



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

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Specifications

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Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	455.9	-
Insertion Loss	dB	-	1.4	2.8
1 dB Bandwidth	MHz	7	7.81	
3 dB Bandwidth	MHz	8.5	9.04	-
Passband Variation	dB	-	0.5	3
Absolute Delay	usec	-	0.09	-
Ultimate Rejection(@463MHz)	dB	15	43	-
Material Temperature coefficient	KHz/°C	-14.58		
Substrate Material	-	42LT		
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	SMD3.8*3.8			

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.
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#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBT45603		
Rev. Date	2008-01-22		
Ver.	1.0	Page	1 / 3

Matching Configuration

INPUT
50 Ω



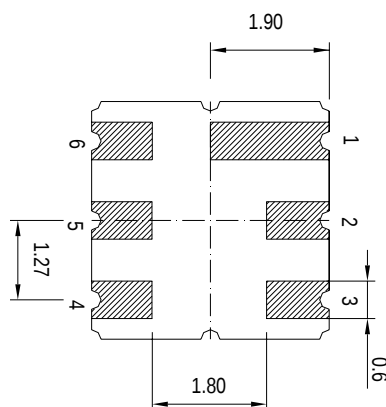
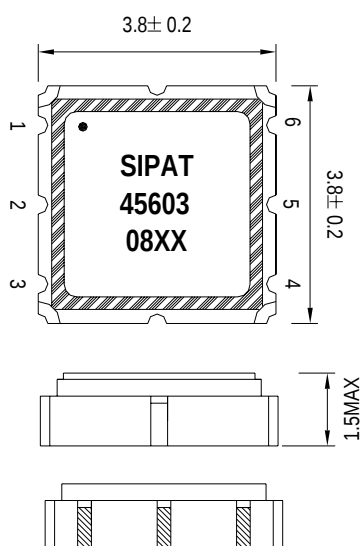
OUTPUT
50 Ω

Source / Load Impedance = 50 ohm

Notes - Component values may change depending
on board layout.

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Package Dimension



Pad Configuration:

Input 2
Output 5
Ground All Others

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) 45603: Part Number
- 4) 08XX: Date Code

Package: SMD3.8*3.8

Unit: mm



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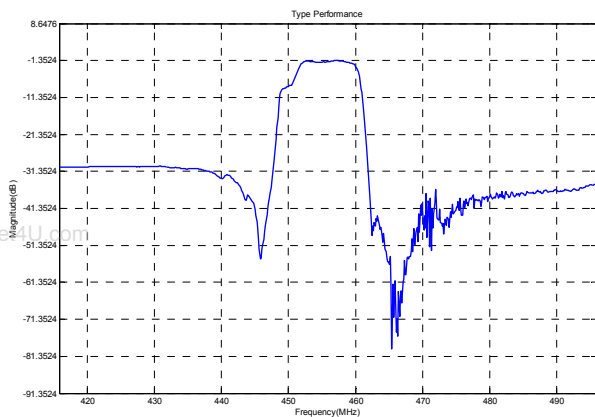
1.0

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Typical Performance

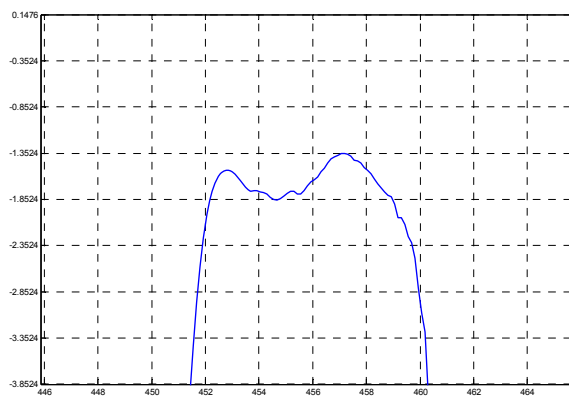
Frequency Respond



Horizontal: 10MHz/Div

Vertical: 10dB/Div

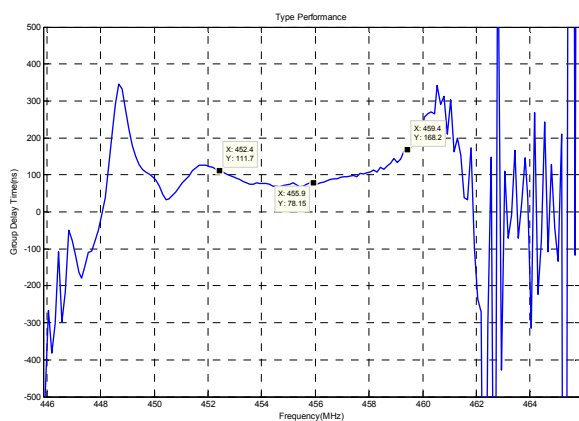
Passband Respond



Horizontal: 2MHz/Div

Vertical: 0.5dB/Div

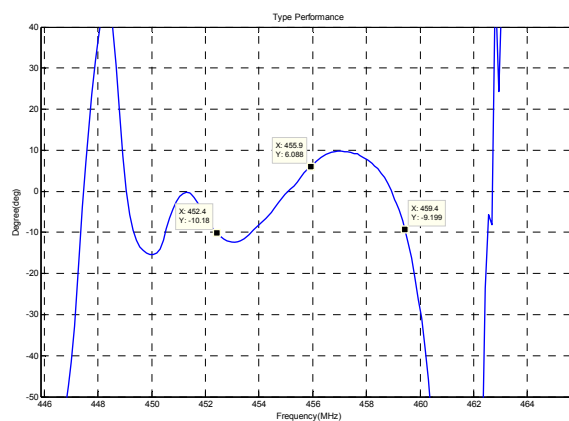
Group Delay Variation($f_0 \pm 3.5$ MHz)



Horizontal: 2MHz/Div

Vertical: 100ns/Div

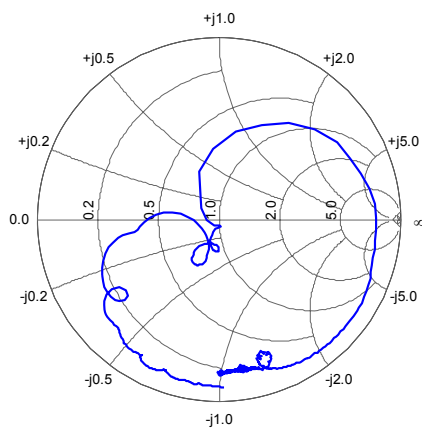
Phase Linearity($f_0 \pm 3.5$ MHz)



Horizontal: 2MHz/Div

Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22

