



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# PRELIMINARY

## 2.45 GHz Balun / Filter Combination

P/N 2450FB15K001

Detail Specification: 05/11/06

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### General Specifications

<b>Part Number</b>	2450FB15K001	<b>Attenuation (dB)</b>	45 min.@ 880~960MHz
<b>Frequency (MHz)</b>	2400~2500		30 min.@1710~1880 MHz
<b>Unbalanced Impedance</b>	50 Ω		30 min.@1880~1990MHz
<b>Differential Balanced Imp.</b>	Conjugate match to CSR BC03, BC04		20 min.@2110~2170MHz
<b>Insertion Loss</b>	3.8 dB max.		30 min.@4800~5000MHz
<b>Return Loss</b>	9.5 dB min.		20 typ.@7200~7500MHz
<b>Phase Difference</b>	180° ± 10	<b>Operating and Storage Temp.</b>	-40 to +85°C
<b>Amplitude Difference</b>	1.5 dB max.	<b>Reel Quantity</b>	4,000
		<b>Power Capacity</b>	1.0 watt max.

### Mechanical Dimensions

	In	mm
<b>L</b>	0.079 ± 0.004	2.00 ± 0.10
<b>W</b>	0.049 ± 0.004	1.25 ± 0.10
<b>T</b>	0.028 ± 0.004	0.70 ± 0.10
<b>a</b>	0.012 ± 0.004	0.30 ± 0.10
<b>b</b>	0.008 ± 0.004	0.20 ± 0.10
<b>c</b>	0.012 +.004/-0.008	0.30 +0.1/-0.2
<b>g</b>	0.014 ± 0.004	0.35 ± 0.10
<b>p</b>	0.026 ± 0.002	0.65 ± 0.05

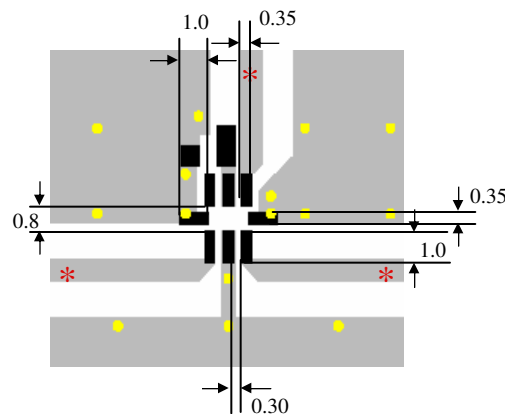
### Terminal Configuration

No.	Function
1	Unbalanced Port
2	NC or DC Feed
3	NC or DC Feed
4	GND
5	Balanced Port
6	GND
7	Balanced Port
8	GND

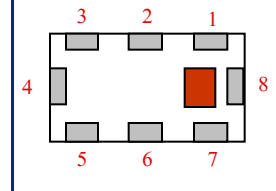
### Mounting Considerations

\* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

\*\* By-pass capacitor should be connected when feeding DC power.



Units: mm



- Solder Resist
- Land
- Through-hole (φ0.3)

Johanson Technology, Inc. reserves the right to make design changes without notice.  
All sales are subject to Johanson Technology, Inc. terms and conditions.

# PRELIMINARY

## 2.45 GHz Balun / Filter Combination

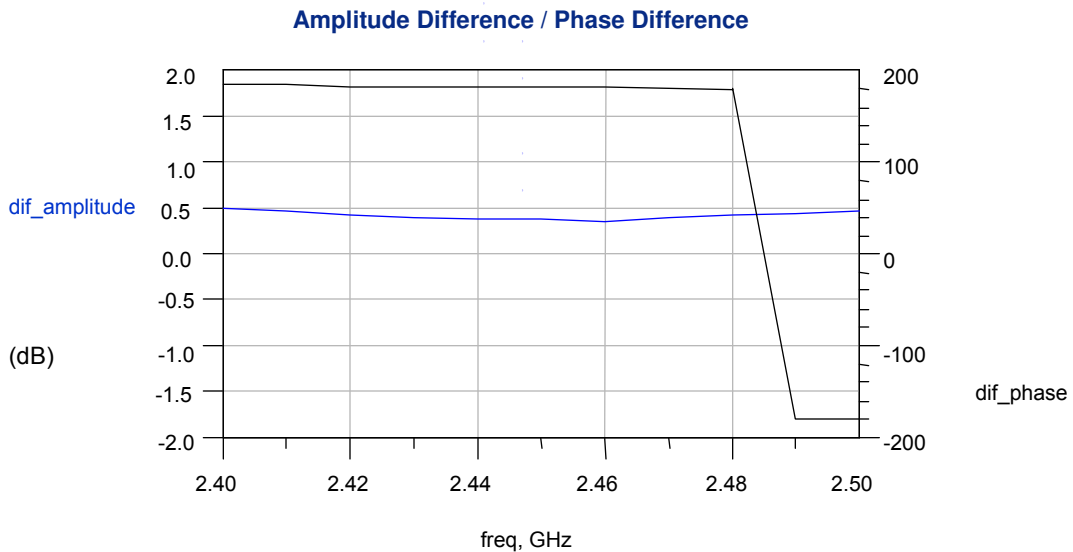
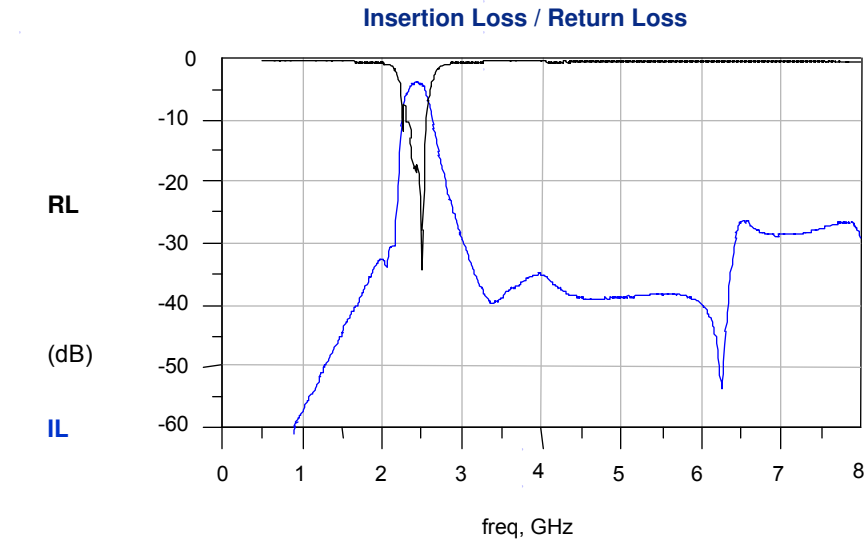
P/N 2450FB15K0001

Detail Specification: 05/11/06

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### Typical Electrical Performance (T=25°C)

\* Note: The balanced ports (pins 5 & 7) are terminated with a balanced impedance of  $22-j*84$ .



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