

"High Frequency Ceramic Solutions"

2.45 GHz Balun / Filter Combination

P/N 2450FB39B100

Detail Specification: 10/23/03

Page 1 of 2

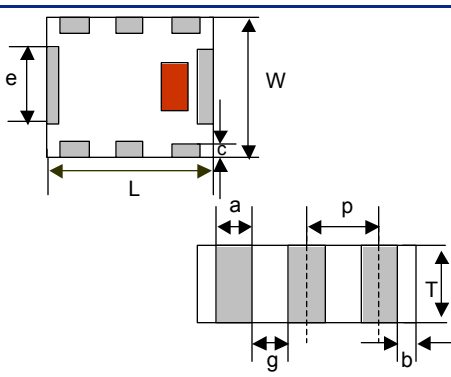
General Specifications

Part Number	2450FB39B100
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	100 Ω
Insertion Loss	2.0 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 10
Amplitude Difference	1.0 dB max.

Attenuation (dB)	35 min. @ 880~960MHz
	30 min. @ 1710~1910 MHz
	30 min. @ 4800~5000MHz
	25 min. @ 7200~7500MHz
Operating and Storage Temp.	-40 to +85°C
Reel Quantity	4,000
Power Capacity	1.0 watt max.

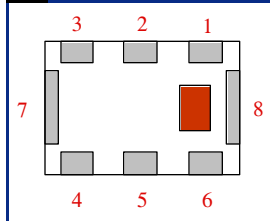
Mechanical Dimensions

	In	mm
L	0.098 $\pm$ 0.008	2.50 $\pm$ 0.20
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
T	0.047 $\pm$ 0.004	1.20 $\pm$ 0.10
a	0.016 $\pm$ 0.004	0.40 $\pm$ 0.10
b	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
c	0.012 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.2
e	0.039 $\pm$ 0.004	1.00 $\pm$ 0.10
g	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
p	0.028 $\pm$ 0.004	0.70 $\pm$ 0.10



Terminal Configuration

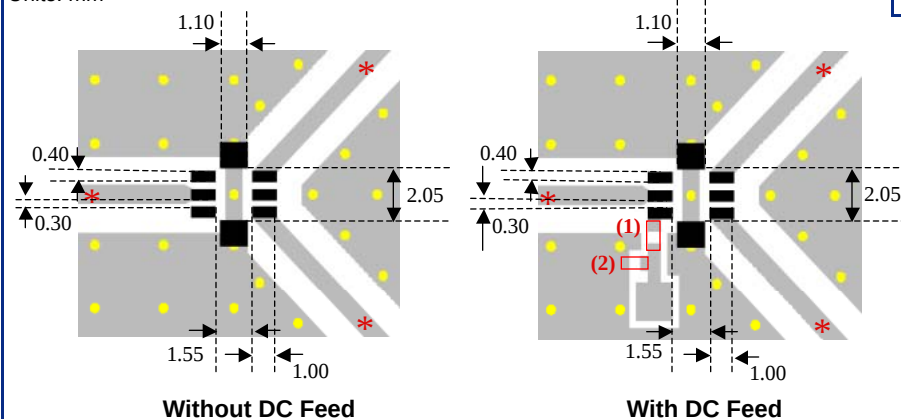
No.	Function
1	NC
2	Unbalanced Port
3	Open or DC Feed
4	Balanced Port
5	NC
6	Balanced Port
7	GND
8	GND



Mounting Considerations

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

Units: mm



- Solder Resist
- Land
- Through-hole ($\phi 0.3$)
- (1) Choke Inductor = 8.2nH
- (2) Decoupling Capacitor = 100pF

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

"High Frequency Ceramic Solutions"

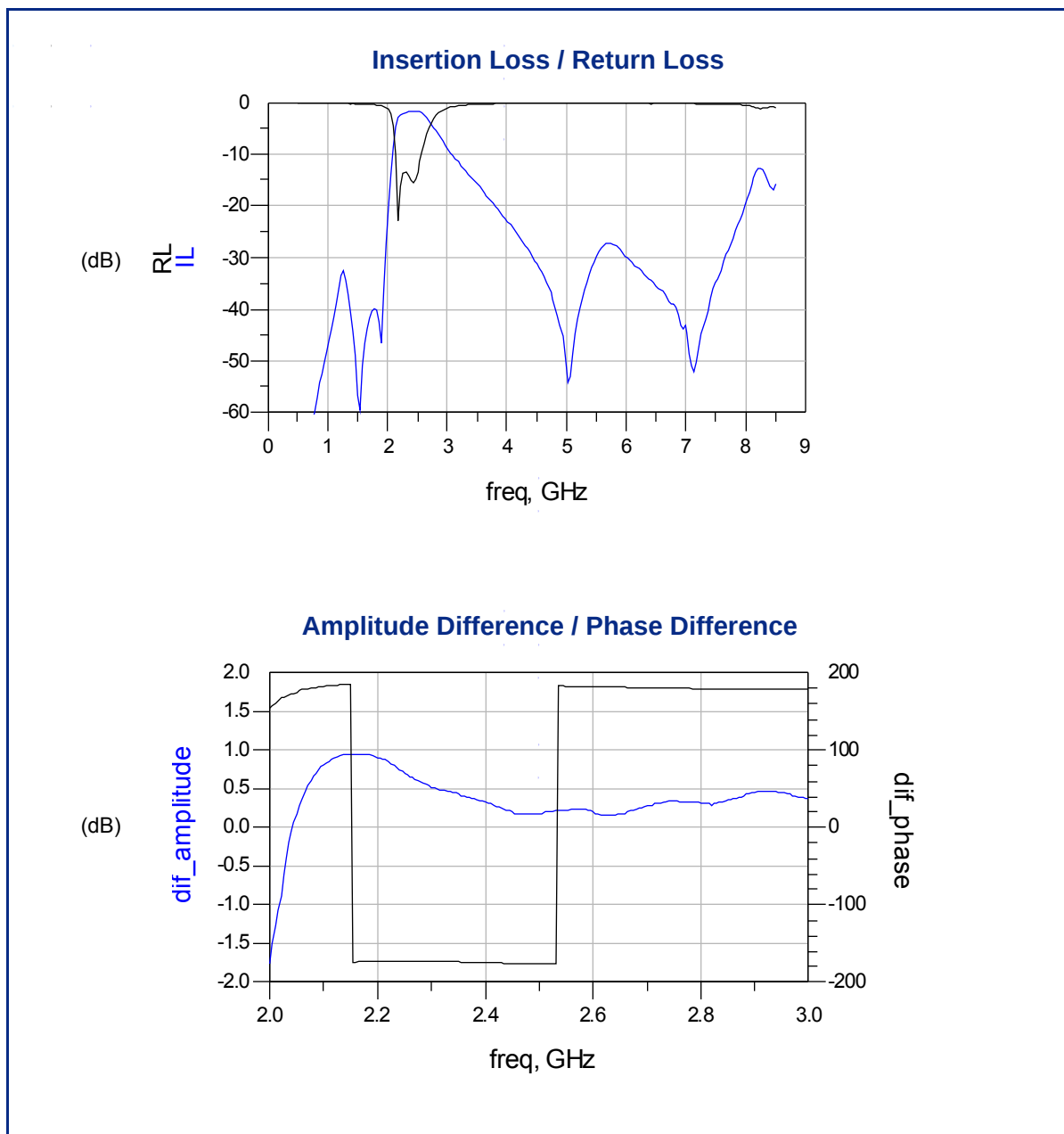
2.45 GHz Balun / Filter Combination

P/N 2450FB39B100

Detail Specification: 10/23/03

Page 2 of 2

Typical Electrical Performance (T=25°C)



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com