

# "High Frequency Ceramic Solutions"

**920/1885 MHz Dual Band Balun**

**P/N 0918BD41B050**

Detail Specification: 07/03/03

Page 1 of 2

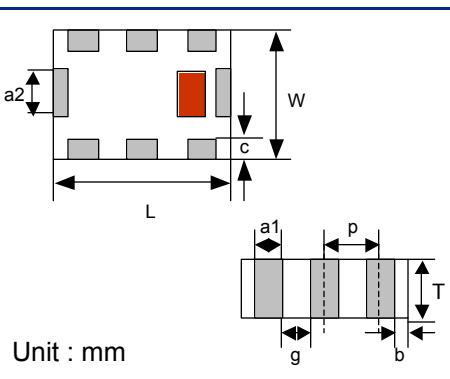
## General Specifications

<b>Part Number</b>	0918BD41B050	
	<b>Band 1</b>	<b>Band 2</b>
<b>Frequency (MHz)</b>	900 ~ 940	1850 ~ 1920
<b>Insertion Loss @ BW</b>	1.2 dB max.	1.7 dB max.
<b>Return Loss @ Unbalanced Port</b>	8.5 dB Min.	
<b>Unbalanced Impedance</b>	50 Ω	
<b>Differential Balanced Imp.</b>	50 Ω	

<b>Power Capacity</b>	1.0 Watt max.
<b>Operating Temperature</b>	-40 ~ +85 °C
<b>Reel Quantity</b>	2,000

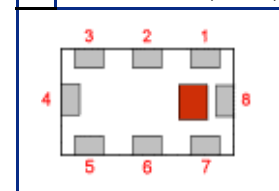
## Mechanical Dimensions

	In	mm
<b>L</b>	0.126 ± 0.008	3.20 ± 0.20
<b>W</b>	0.098 ± 0.008	2.50 ± 0.20
<b>T</b>	0.059 ± 0.006	1.50 ± 0.15
<b>a1</b>	0.022 ± 0.006	0.55 ± 0.15
<b>a2</b>	0.028 ± 0.008	0.70 ± 0.20
<b>b</b>	0.004 min	0.1 min
<b>c</b>	0.016 +.004/-0.008	0.40 +0.1/-0.2
<b>g</b>	0.018 ± 0.006	0.45 ± 0.15
<b>p</b>	0.039 ± 0.008	1.00 ± 0.20



## Terminal Configuration

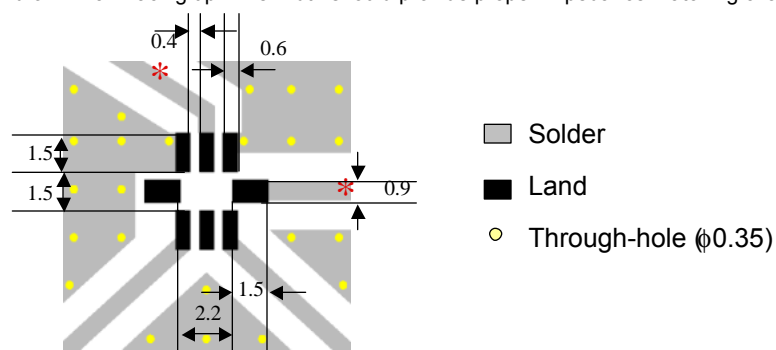
No.	Function
1	GND
2	Unbalanced Port (Band 1)
3	GND
4	NC
5	Balanced Port
6	NC
7	Balanced Port
8	Unbalanced Port (Band 2)



## Mounting Considerations

Mount these devices with brown mark facing up. Line width should provide proper impedance matching characteristics.

Units: mm



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



[www.johansontechology.com](http://www.johansontechology.com)

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

2003 Johanson Technology, Inc. All Rights Reserved

# "High Frequency Ceramic Solutions"

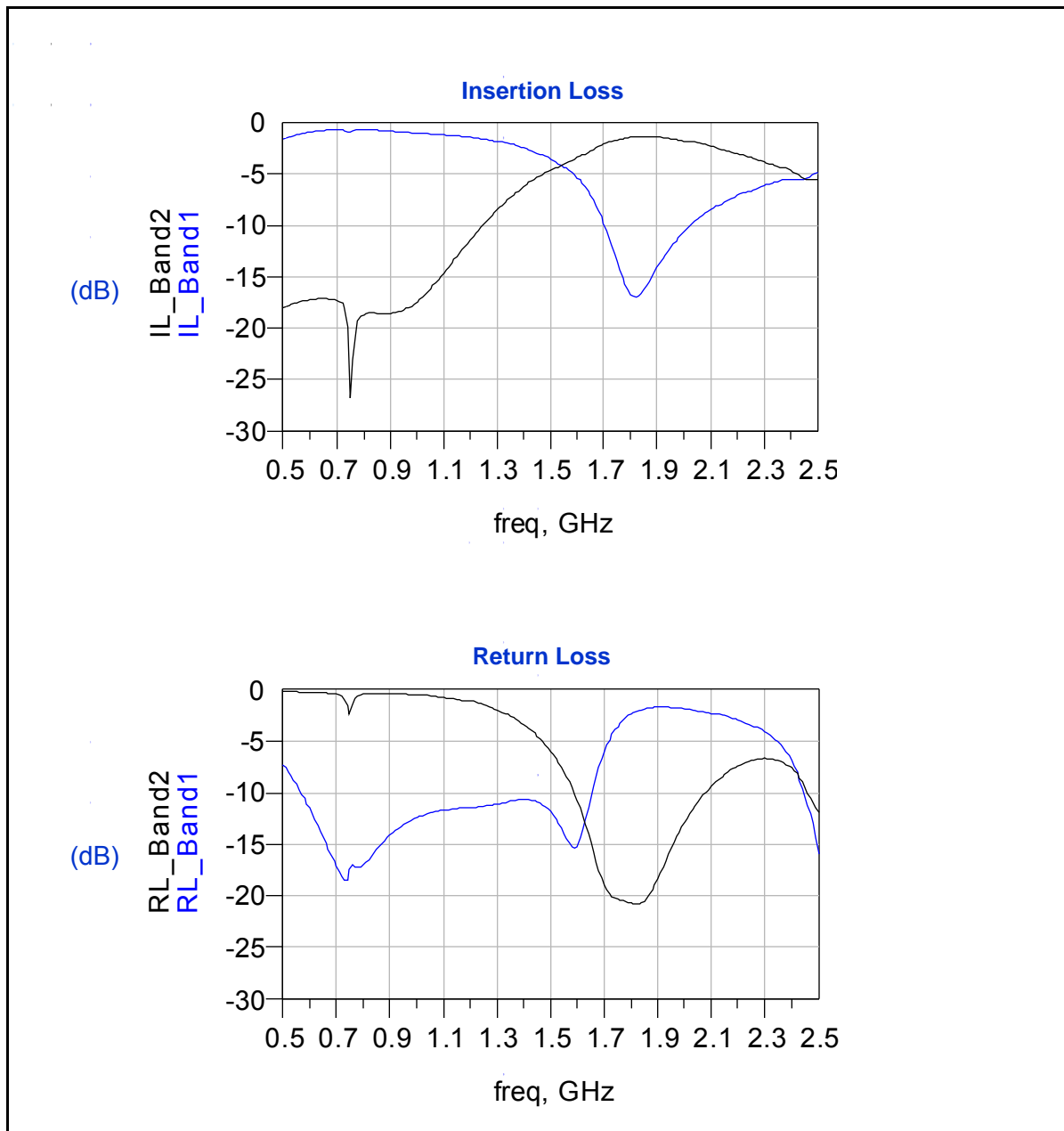
920/1885 MHz Dual Band Balun

P/N 0918BD41B050

Detail Specification: 07/03/03

Page 2 of 2

## Typical Electrical Characteristics (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](http://www.johansontechnology.com)

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

2003 Johanson Technology, Inc. All Rights Reserved