

# "High Frequency Ceramic Solutions"

## 850 MHz Balun

Detail Specification: 06/04/07

P/N 0866BL15C200

Page 1 of 2

### General Specifications

|                      |              |
|----------------------|--------------|
| Part Number          | 0866BL15C200 |
| Frequency (MHz)      | 800 - 900    |
| Unbalanced Impedance | 50 $\Omega$  |
| Balanced Impedance   | 200 $\Omega$ |
| Insertion Loss       | 1.2 dB max.  |
| Return Loss          | 9.5 dB min.  |

|                       |               |
|-----------------------|---------------|
| Phase Difference      | 180° $\pm$ 10 |
| Amplitude Difference  | 1.0 dB max.   |
| Operating Temperature | -40 to +85°C  |
| Reel Quantity         | 4,000         |
| Power Capacity        | 3 watts max.  |
| MSL                   | 2             |

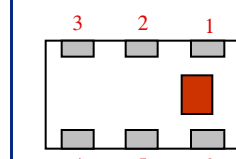
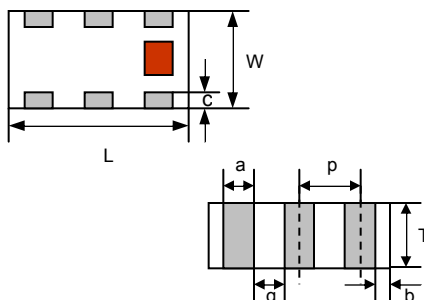
|               |                      |            |                        |                          |
|---------------|----------------------|------------|------------------------|--------------------------|
| P/N<br>Suffix | Packaging<br>Style   | Bulk       | Suffix = S             | Eg. 0866BL15C200S        |
|               |                      | T & R      | Suffix = E             | Eg. 0866BL15C200E        |
|               | Termination<br>Style | 100% Tin   | Suffix = None          | Eg. 0866BL15C200(E or S) |
|               |                      | Tin / Lead | Please consult Factory |                          |

### Terminal Configuration

| No. | Function              |
|-----|-----------------------|
| 1   | Unbalanced Port       |
| 2   | GND or DC feed+RF GND |
| 3   | NC                    |
| 4   | Balanced Port         |
| 5   | GND                   |
| 6   | Balanced Port         |

### Mechanical Dimensions

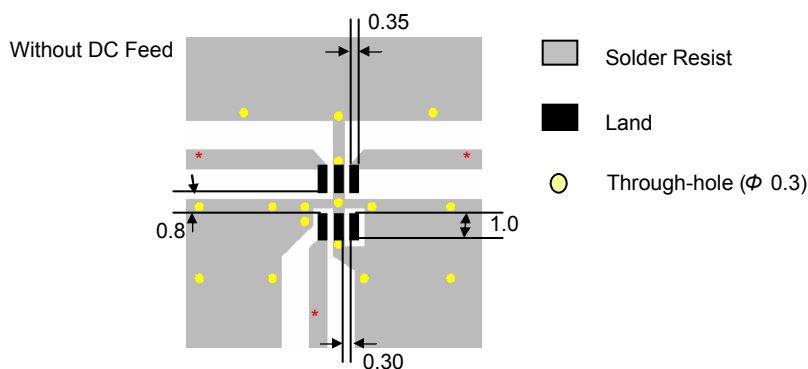
|   | In                       | mm                  |
|---|--------------------------|---------------------|
| L | 0.079 $\pm$ 0.004        | 2.00 $\pm$ 0.10     |
| W | 0.049 $\pm$ 0.004        | 1.25 $\pm$ 0.10     |
| T | 0.028 $\pm$ 0.004        | 0.70 $\pm$ 0.10     |
| a | 0.012 $\pm$ 0.004        | 0.30 $\pm$ 0.10     |
| b | 0.008 $\pm$ 0.004        | 0.20 $\pm$ 0.10     |
| c | 0.012 $\pm$ 0.004/-0.008 | 0.30 $\pm$ 0.1/-0.2 |
| g | 0.014 $\pm$ 0.004        | 0.35 $\pm$ 0.10     |
| p | 0.026 $\pm$ 0.002        | 0.65 $\pm$ 0.05     |



### Mounting Considerations

Mount these devices with brown mark facing up.

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



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)

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2007 Johanson Technology, Inc. All Rights Reserved

# "High Frequency Ceramic Solutions"

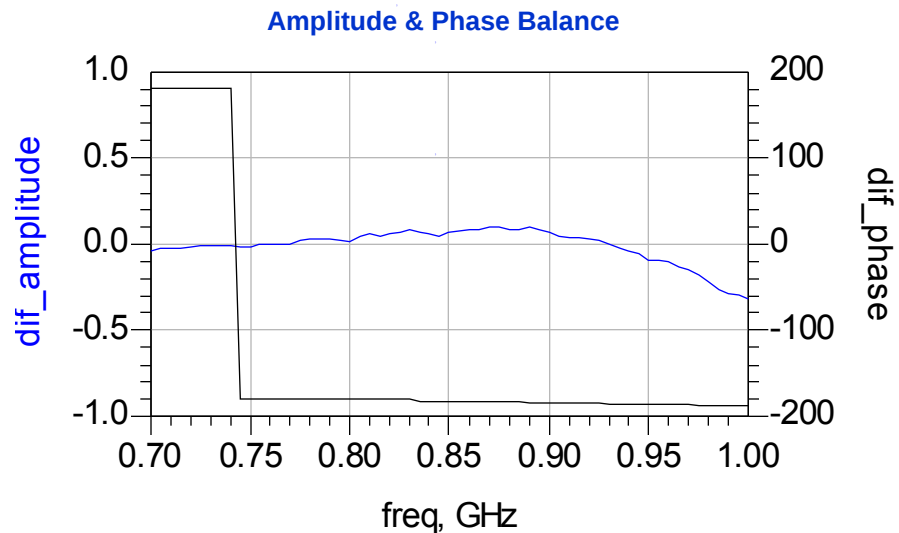
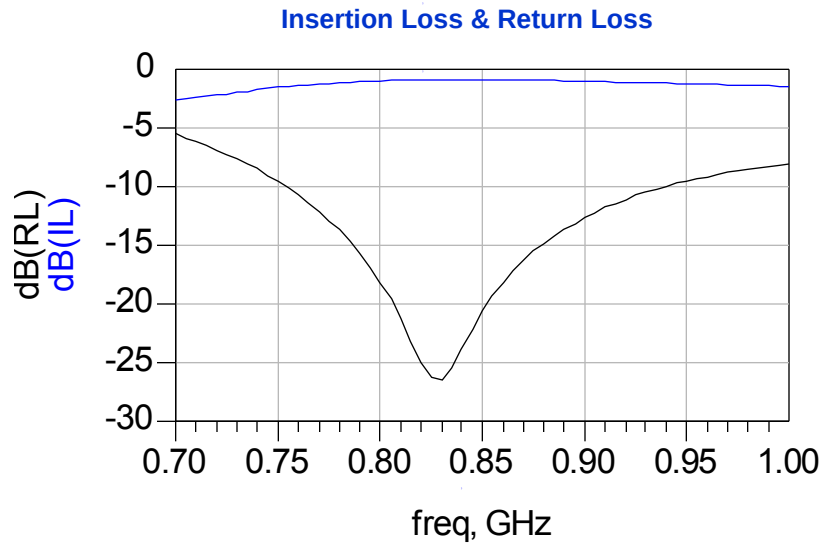
850 MHz Balun

P/N 0866BL15C200

Detail Specification: 06/04/07

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](http://www.johansontechnology.com)

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2007 Johanson Technology, Inc. All Rights Reserved