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[Johanson Technology Inc.](#)  
[1850BL15B200E](#)

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# “High Frequency Ceramic Solutions”

## 1.85 GHz Balun

Detail Specification

P/N 1850BL15B200

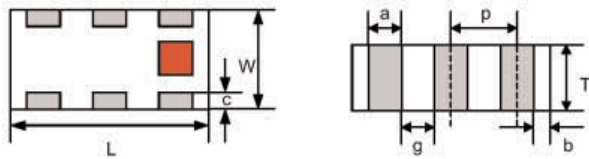
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Part Number	Frequency (MHz)	Impedance Unbal. / Bal.	Insertion Loss	Return Loss	Phase Difference	Amplitude Difference
1850BL15B200_	1700 - 2000	50/200 Ω	1.0 dB max.	9.5 dB min.	180°±10°	2.0 dB max.

Input Power	Impedance	Operating Temperature Range	Reel Qty
3 Watts max	50 / 200 Ω	-40 to +85°C	4,000

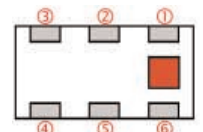
### Mechanical Dimensions

	L	W	T	a	b	c	g	p
Inches	0.079 ± .004	0.049 ± .004	0.034 ± .004	0.012 ± .004	0.008 ± .004	0.012 ± .004/-0.008	0.014 ± .004	0.026 ± .002
mm	2.0 ± 0.1	1.25 ± 0.1	0.85 ± 0.1	0.30 ± 0.1	0.20 ± 0.1	0.30±0.1/-0.2	0.35 ± 0.1	0.65 ± 0.05



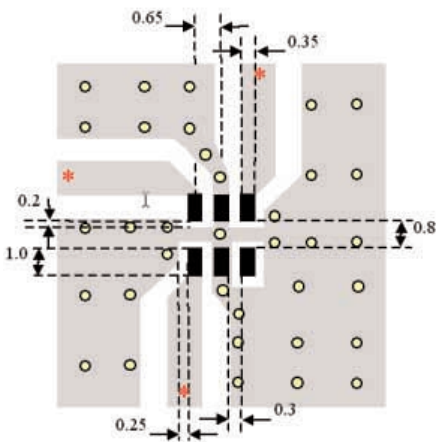
### Terminal Configuration

1	Unbalanced Port	4	Balanced Port
2	GND or DC Feed	5	GND
3	Balanced Port	6	NC



### Mounting Considerations

#### Without DC feed



Mount devices with colored mark facing up.

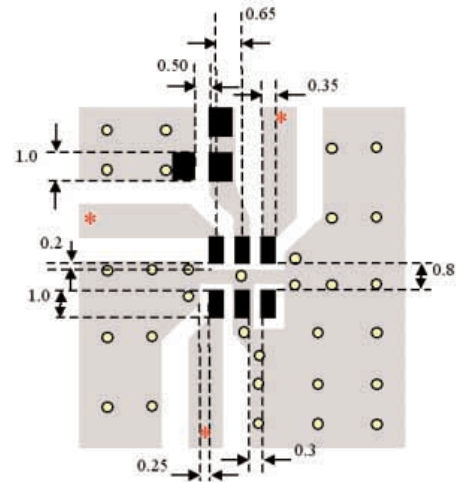
\* Line width should be designed to provide 50Ω impedance matching characteristics.

By-pass capacitor(s) should be connected when feeding DC power.

- Solder Resist
- Land
- Through-hole (φ 0.3)

Units: mm

#### With DC feed



Johanson Technology, Inc. reserves the right to make design changes without notice.  
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### P/N 1800BL18B200 Balun Typical - Return Loss & Insertion Loss

