

"High Frequency Ceramic Solutions"

850 MHz Balun	P/N 0866BL15C200
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General Specifications			
Part Number	0866BL15C200	Phase Difference	180° ± 10
Frequency (MHz)	800 - 900	Amplitude Difference	1.0 dB max.
Unbalanced Impedence	50 Ω	Operating Temperature	-40 to +85°C
Balanced Impedence	200 Ω	Reel Quantity	4,000
Insertion Loss	1.2 dB max.	Power Capacity	3 watts max.
Return Loss	9.5 dB min.	MSL	2

Phase Difference	180° ± 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 Suffix	Packaging Style	Bulk	Suffix = S	Eg. 0866BL15C200S
		T & R	Suffix = E	Eg. 0866BL15C200E
	Termination Style	100% Tin	Suffix = None	Eg. 0866BL15C200(E or S)
		Tin / Lead	Please consult Factory	

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

Diagram illustrating the pin configuration of the 6-pin connector:

- Pin 1 (Red): Unbalanced Port
- Pin 2: GND or DC feed+RF GND
- Pin 3: NC
- Pin 4: Balanced Port
- Pin 5: GND
- Pin 6: Balanced Port

A 3x3 grid with numbers 1 through 6 placed in the top and bottom rows. The top row contains 3, 2, and 1 from left to right. The bottom row contains 4, 5, and 6 from left to right. A red square is located in the middle-right cell of the grid.

Mechanical Dimensions				
	In	mm		
L	0.079 ± 0.004	2.00 ± 0.10		
W	0.049 ± 0.004	1.25 ± 0.10		
T	0.028 ± 0.004	0.70 ± 0.10		
a	0.012 ± 0.004	0.30 ± 0.10		
b	0.008 ± 0.004	0.20 ± 0.10		
c	0.012 +.004/- .008	0.30 +0.1/-0.2		
g	0.014 ± 0.004	0.35 ± 0.10		
p	0.026 ± 0.002	0.65 ± 0.05		

The diagram illustrates a rectangular plate of width W and length L . A central hole of diameter C is shown. A red square indicates the location of the hole. Below the main diagram, a detailed view of the hole's edge is shown, with dimensions a , p , T , g , and b labeled.

Mounting Considerations

Mount these devices with brown mark facing up.

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

Without DC Feed

0.35

0.30

0.8

1.0

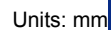
Solder Resist

Land

Through-hole (ϕ 0.3)

Units: mm

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



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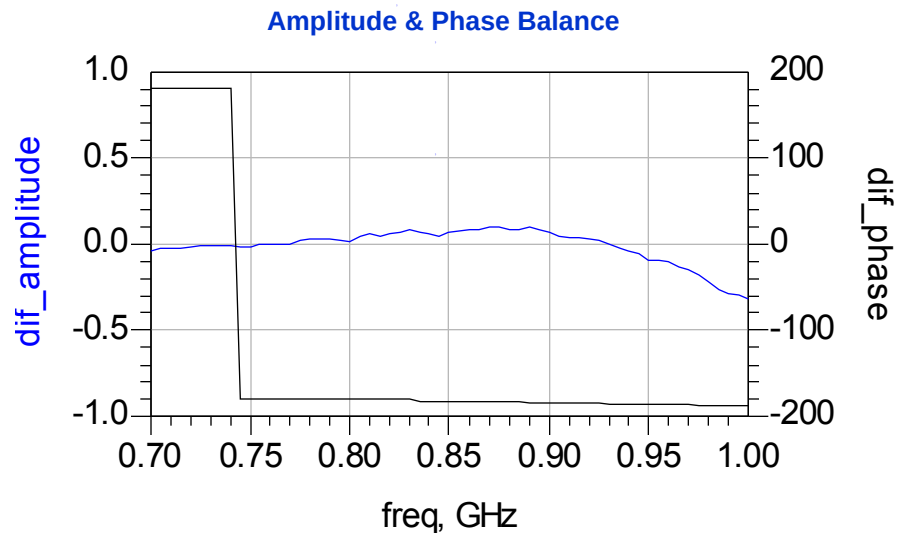
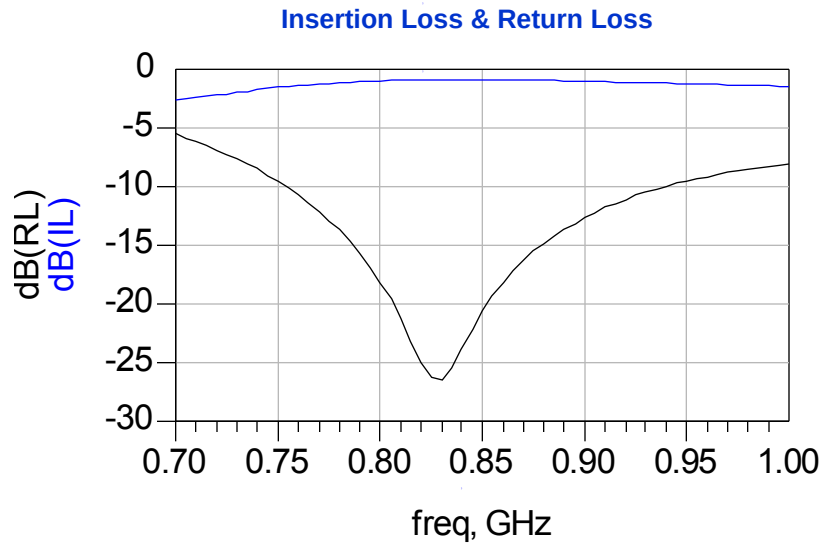
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Typical Electrical Performance (T=25°C)



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