

Excellent Integrated System Limited

Stocking Distributor

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[Johanson Technology Inc.](#)
[5400BL14A0200T](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

"High Frequency Ceramic Solutions"

Preliminary

5.4GHz 50:200Ω Balun

P/N 5400BL14A0200

Detail Specification: 12/14/10

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General Specifications

Part Number	5400BL14A0200
Frequency (MHz)	4900~5950
Unbalanced Impedance	50 Ω
Balanced Impedance (diff.)	200 Ω
Insertion Loss	1.2 dB max.
Return Loss	9.5 dB min.

Phase Difference	180° ± 10
Amplitude Difference	1.5 dB max.
Operating Temperature	-40 to +85°C
Storage Temperature	+5 ~ +35 °C, Humidity 45~75%RH, 18 mos. max
Reel Quantity	4,000
Power Capacity	0.5 watts max.

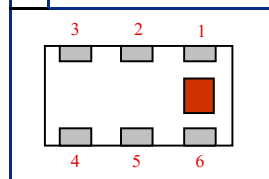
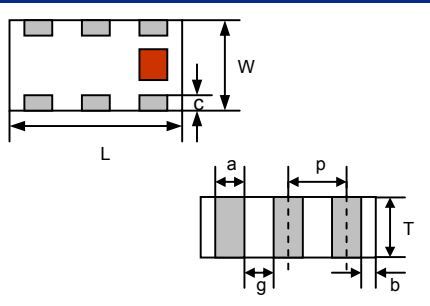
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 5400BL14A0200S
		T & R	Suffix = T	Eg. 5400BL14A0200T
	Termination Style	100% Tin	Suffix = None	Eg. 5400BL14A0200(T or S)
	Evaluation Board	5400BL140200-EB1SMA		

Terminal Configuration

No.	Function
1	Unbalanced Port (IN)
2	GND or DC feed + RF GND
3	Balanced Port (OUT1)
4	Balanced Port (OUT2)
5	GND
6	NC

Mechanical Dimensions

	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.024 ± 0.004	0.60 ± 0.10
a	0.008 ± 0.004	0.20 ± 0.10
b	0.008 ± 0.004/-0.006	0.20 +0.1/-0.15
c	0.006 ± 0.004	0.15 ± 0.10
g	0.012 ± 0.004	0.30 ± 0.10
p	0.020 ± 0.002	0.50 ± 0.05

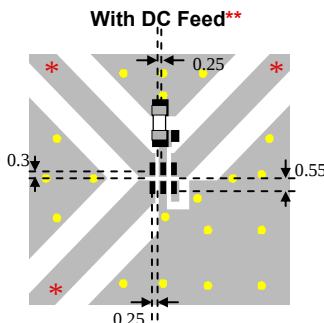
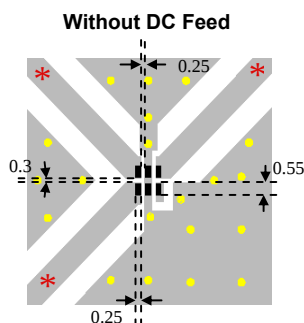


Mounting Considerations

Mount these devices with brown mark facing up.

* Line width should be designed to provide proper impedance matching characteristics.

** A 2.7-4.7pF by-pass capacitor should be connected to GND (acting as RF GND) when using the DC feed feature.



- Solder Resist
- Land
- Through-hole (Φ 0.3)
- RF by pass capacitor (DC Block)
Johanson p/n***:
500R07S2R7CV4T
500R07S4R7CV4T
***Either 2 values will work well as
RF bypass (can use values in
between)

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

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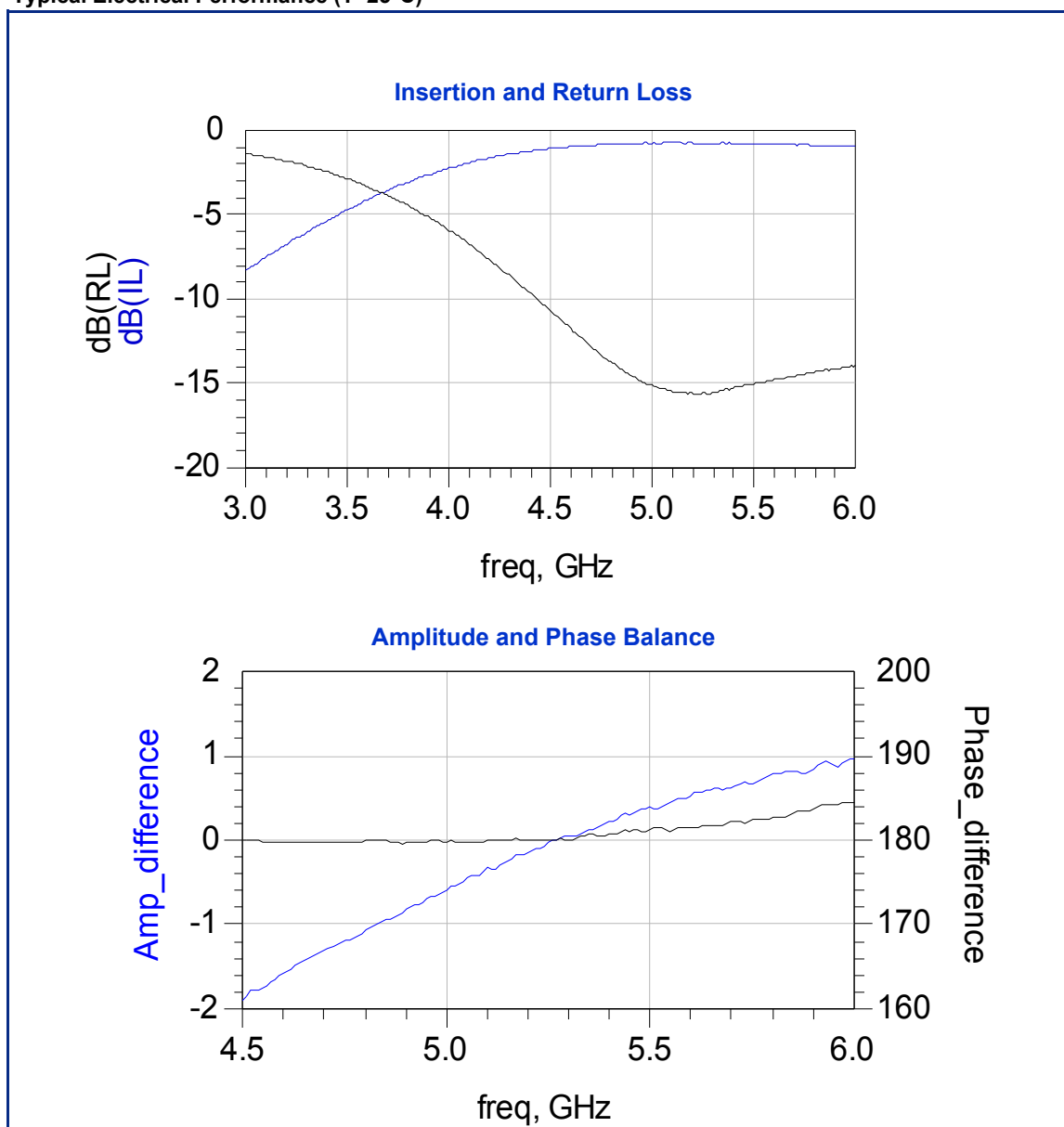
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Typical Electrical Performance (T=25°C)



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