

"High Frequency Ceramic Solutions"

5.4 GHz Balun

P/N 5400BL14B100

Detail Specification: 07/21/06

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General Specifications

Part Number	5400BL14B100
Frequency (MHz)	4900 - 5875
Balanced Impedance	100 Ω
Insertion Loss	1.0 dB max.
Return Loss	9.5 dB min.

Phase Difference	180° \pm 10
Amplitude Difference	1.5 dB max.
Operating Temperature	-40 to +85°C
Reel Quantity	4,000
Power Capacity	0.5 watts max.

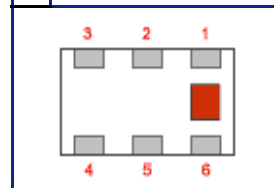
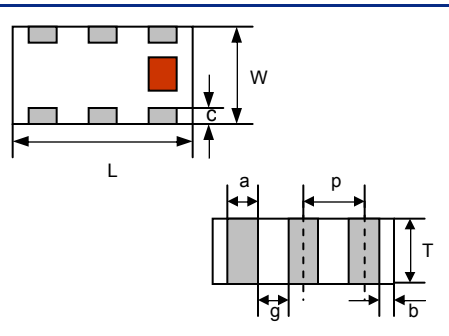
P/N	Packaging Style	Bulk	Suffix = S	Eg. 5400BL14B100S
		T & R	Suffix = E	Eg. 5400BL14B100E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 5400BL14B100(E or S)
		Tin / Lead	Please consult Factory	

Terminal Configuration

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

Mechanical Dimensions

	In	mm
L	0.063 \pm 0.004	1.60 \pm 0.10
W	0.031 \pm 0.004	0.80 \pm 0.10
T	0.024 \pm 0.004	0.60 \pm 0.10
a	0.008 \pm 0.004	0.20 \pm 0.10
b	0.008 +.004/-0.006	0.20 +0.1/-0.15
c	0.006 \pm 0.004	0.15 \pm 0.10
g	0.012 \pm 0.004	0.30 \pm 0.10
p	0.020 \pm 0.002	0.50 \pm 0.05

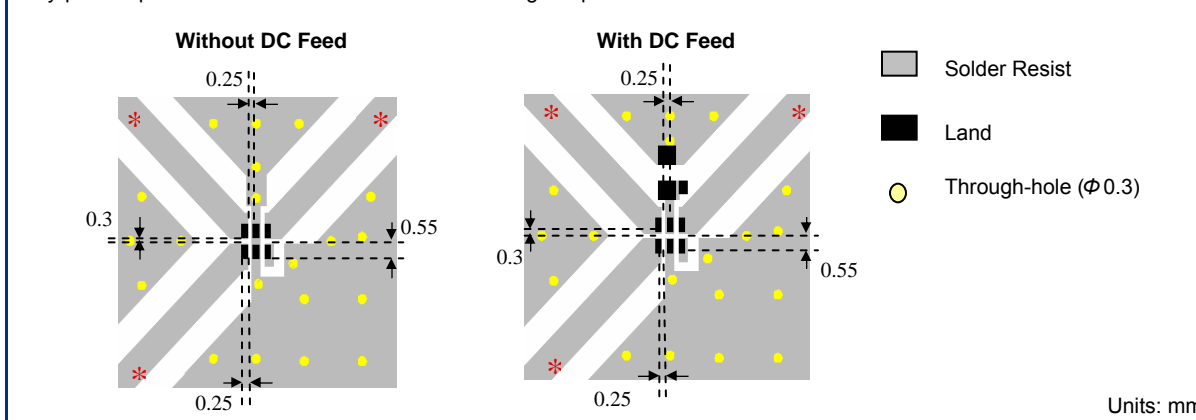


Mounting Considerations

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.

** By-pass capacitor should be connected when feeding DC power



Units: mm

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

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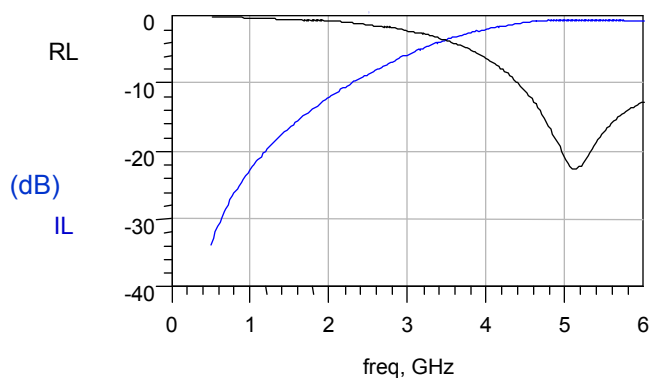
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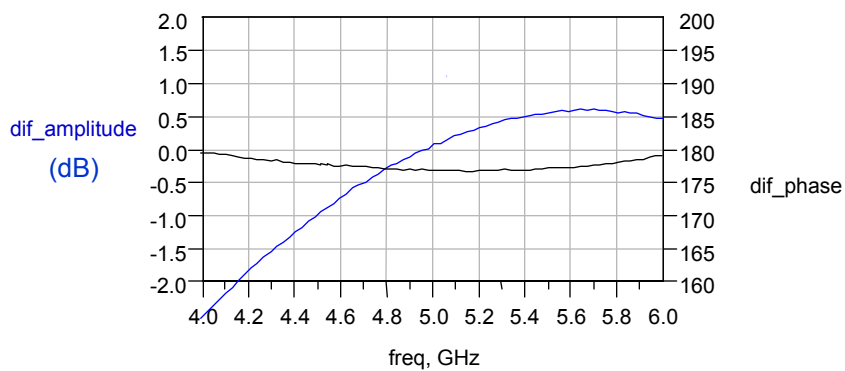
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Typical Electrical Performance (T=25°C)

Insertion Loss & Return Loss



Amp. & Phase Differential



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