"High Frequency Ceramic Solutions"

5.4 GHz Balun — P/N 5400BL14B100

Detail Specification: 07/21/06

General Specifications

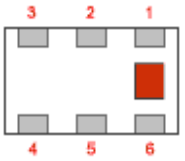
Part Number	5400BL14B100
Frequency (MHz)	4900 - 5875
Balanced Impedence	100 Ω
Insertion Loss	1.0 dB max.
Return Loss	9.5 dB min.

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

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

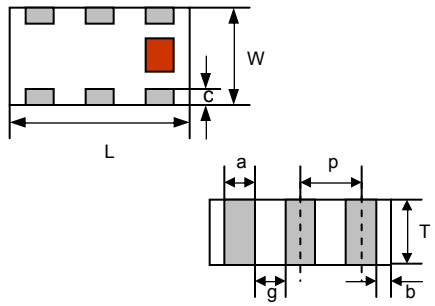
Terminal Configuration

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 ± 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 +.004/-.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



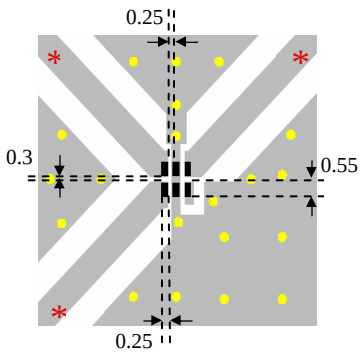
Mounting Considerations

Mount these devices with brown mark facing up.

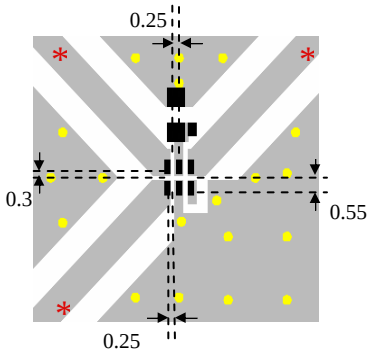
* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

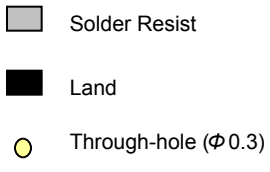
** By-pass capacitor should be connected when feeding DC power

Without DC Feed



With DC Feed





Units: mm

Johanson Technology, Inc. reserves the right to make design changes without notice.
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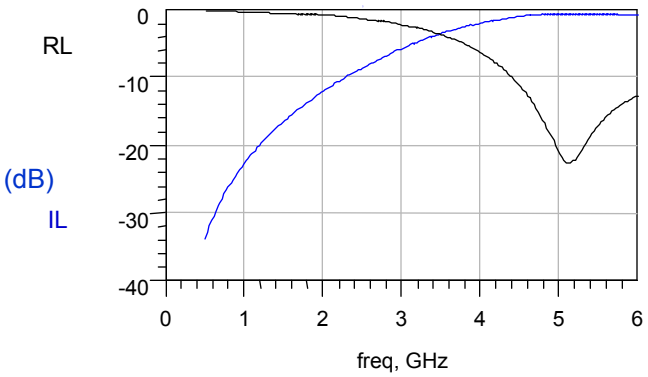
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5.4 GHz Balun **P/N 5400BL14B100**

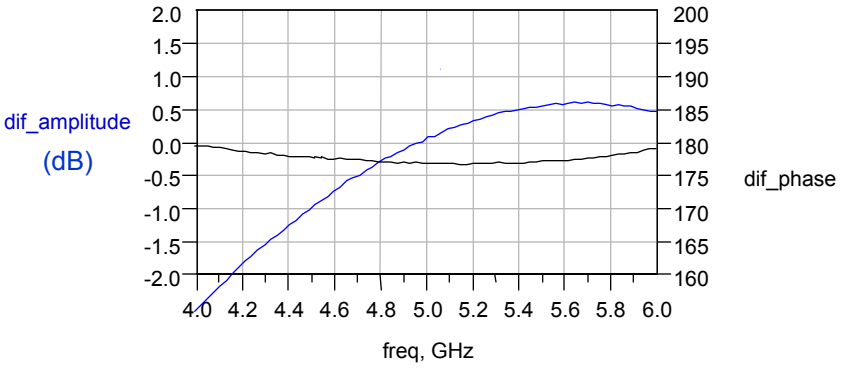
Detail Specification: 07/21/06

Typical Electrical Performance (T=25°C)

Insertion Loss & Return Loss



Amp. & Phase Differential



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