

# "High Frequency Ceramic Solutions"

## 5.4 GHz Filter Balun Combination

P/N 5400FB15A0100

Detail Specification: 04/04/12

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General Specifications	
Part Number	5400FB15A0100
Frequency (MHz)	4900-5875
Unbalanced Impedance	50 $\Omega$
Balanced Impedance	100 $\Omega$
Insertion Loss	2 dB max.
Return Loss	9.5 dB min.
Phase Difference (degree)	180 $\pm$ 15
Amplitude Difference	2.0 dB max.

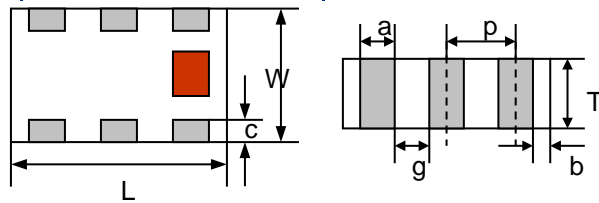
Attenuation (db)	30 min. @3500MHz
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity 45~75%RH, 12 mos. Max
Input Power	2 Watt max.
Reel Quantity	4,000

### Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 5400FB15A0100S
		T & R	Suffix = E	eg. 5400FB15A0100E
	Termination style	100% Tin	Suffix = None	eg. 5400FB15A0100 (E or S)
	Evaluation Board	5400FB15A0100-EBSMA		

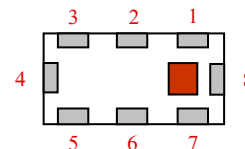
### Mechanical Dimensions

	In	mm
L	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
W	0.049 $\pm$ 0.008	1.25 $\pm$ 0.20
T	0.037 $\pm$ 0.004	0.95 $\pm$ 0.10
a	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
b	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
c	0.012 + 0.004 / -0.008	0.30 + 0.10 / -0.20
g	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
p	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05



### Terminal Configuration

No.	Function
1	Unbalanced Port (IN)
2	NC or DC Feed
3	NC
4	GND
5	Balanced Port
6	GND
7	Balanced Port
8	GND



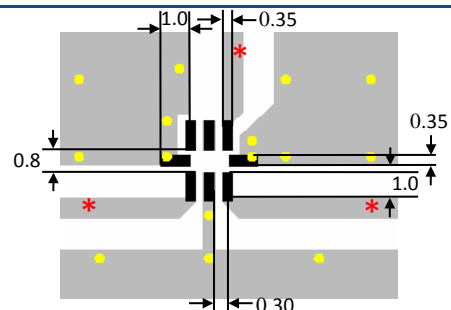
### Mounting Considerations

#### LEGEND

- Solder
- Land
- Through-hole ( $\phi$ 0.3)

Unit : mm

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



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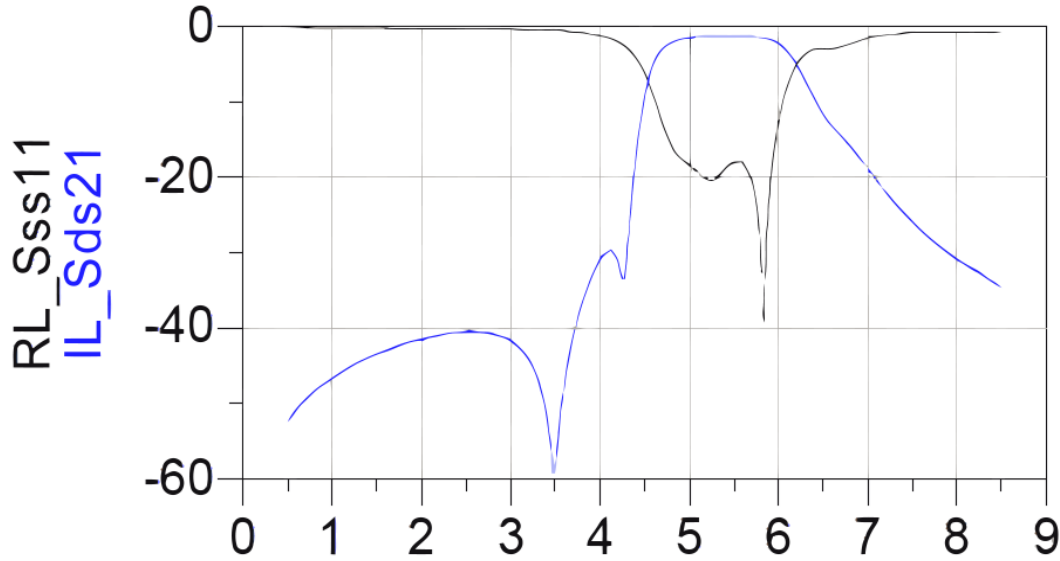
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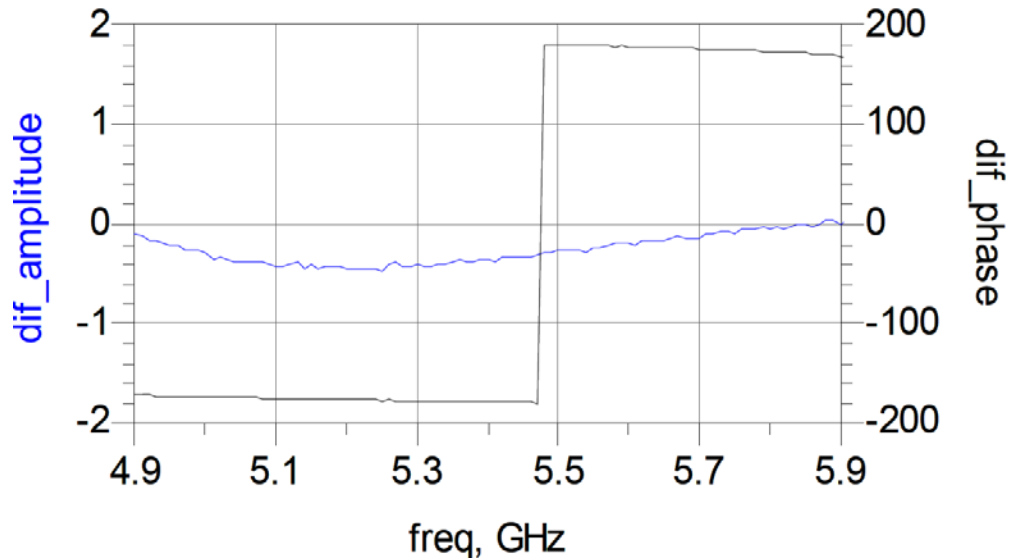
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### Typical Electrical Performance (T=25°C)

#### Insertion and Return Loss



#### Amplitude Difference / Phase Difference



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



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