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[Johanson Technology Inc.](#)  
[2450FB15K0005E](#)

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# High Frequency Ceramic Solutions

**2.45 GHz, Matched Balun-Filter for CSR BC Series Chipset** **P/N 2450FB15K0005**  
 Detail Specification: 12/23/2010 Page 1 of 2

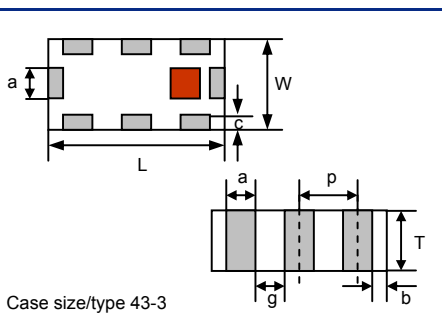
### General Specifications

Part Number	2450FB15K0005
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	Conjugate match to CSR BC series Chipsets
Insertion Loss	3.5 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° ± 10
Amplitude Difference	1.5 dB

<b>Attenuation (dB)</b>	48 min. @ 880~960MHz
	30 min. @ 1710~1880 MHz
	30 min. @ 1880~1990MHz
	25 min. @ 4800~5000MHz
	25 min. @ 7200~7500MHz
<b>Operating Temperature</b>	-40 to +85°C
<b>Storage Temperature</b>	+5 to +35°C, Hum. 45 to 75%RH, 12 mos. Max
<b>Power Capacity</b>	1 Watt max.
<b>Reel Quantity</b>	4000

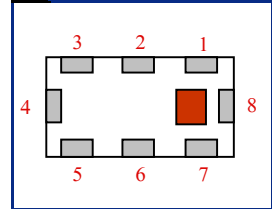
### Mechanical Dimensions

	In	mm
L	0.079 ± 0.008	2.00 ± 0.20
W	0.049 ± 0.008	1.25 ± 0.20
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/-0.008	0.30 +0.1/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05



### Terminal Configuration

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

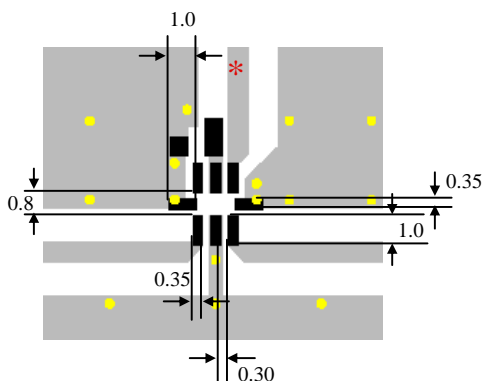


### Mounting Considerations

- \* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.
- \*\* A 10pF by-pass capacitor to GND (or RF GND) should be connected when using DC-Feed feature

### Internal DC-Connections

- Pin1 – Pin3
- Pin2 – Pin5—Pin7
- Pin4 – Pin6—Pin8



- Solder Resist
- Land
- Through-hole (φ0.3)

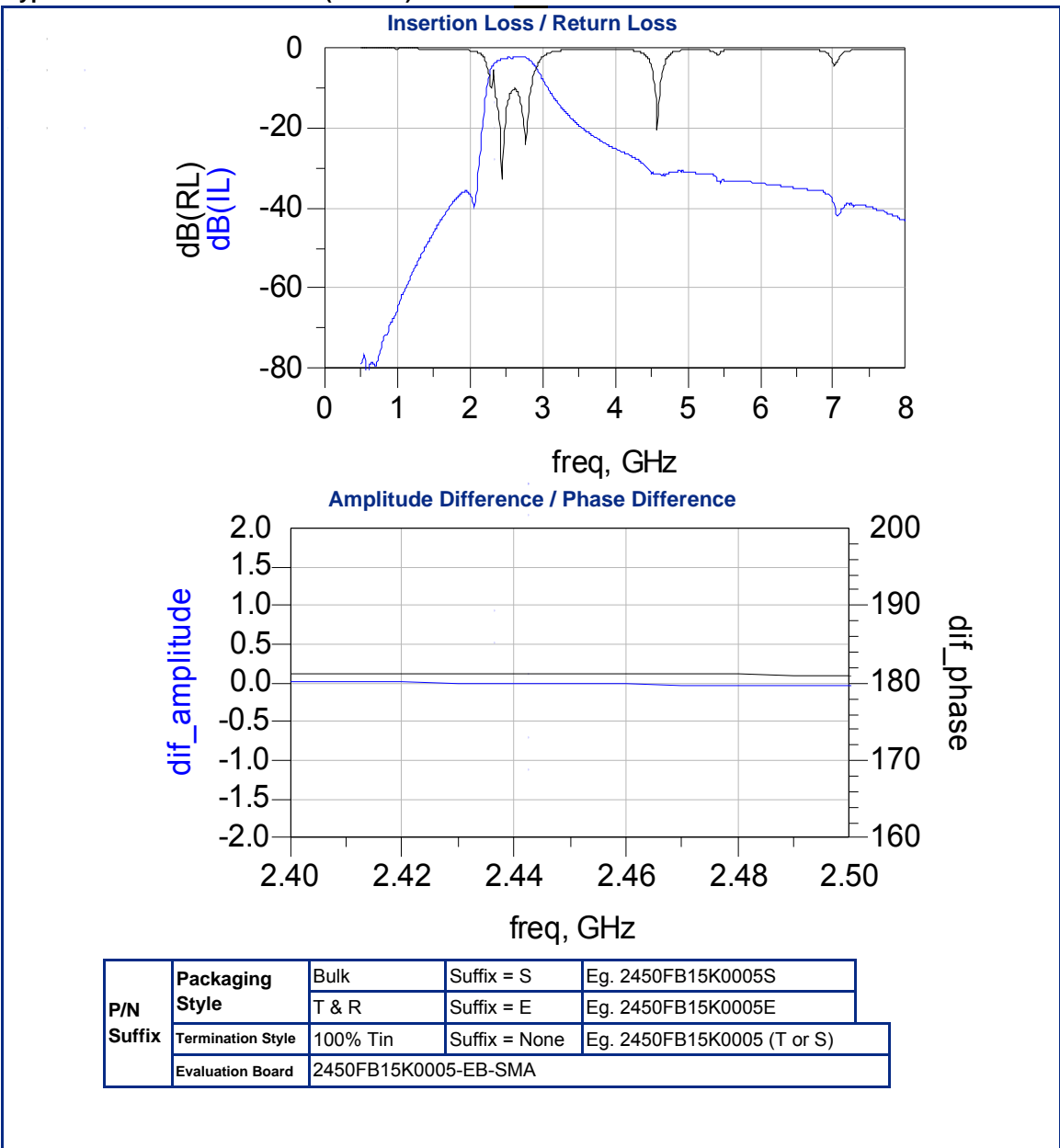
Units: mm

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Typical Electrical Performance (T=25°C)



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