Preliminary

"High Frequency Ceramic Solutions"

5.4 GHz EIA 0402 Ultra Low Profile 50:200Ω Balun

P/N 5425BL07A0200

Detail Specification: 06/23/09

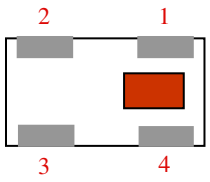
General Specifications

Part Number	5425BL07A0200
Frequency (MHz)	4900 - 5950
Unbalanced Impedance	50 Ω
Balanced Impedance	200 Ω
Insertion Loss	1.2 dB max.
Return Loss	9.5 dB min.
Phase Difference (degree)	180 ± 15
Amplitude Difference	2.0 dB max.

Reel Quanity	10,000
Power Capacity	2W max.
Operating Temperature	-40 to +85°C
Storage Temperature	+5 ~ +35 °C, 12 mos max. Humidity 45~75%RH

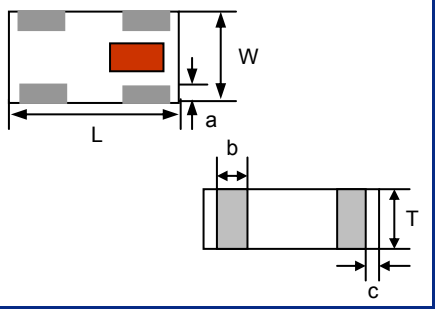
Terminal Configuration

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



Mechanical Dimensions

	In	mm
L	0.039 ± 0.004	1.00 ± 0.10
W	0.020 ± 0.004	0.50 ± 0.10
T	0.015 ± 0.002	0.37 ± 0.05
a	0.004 +.004/-.002	0.10 +0.1/-0.05
b	0.010 +.004/-.002	0.25 +0.1/-0.05
c	0.004 +.004/-.002	0.10 +0.1/-0.05

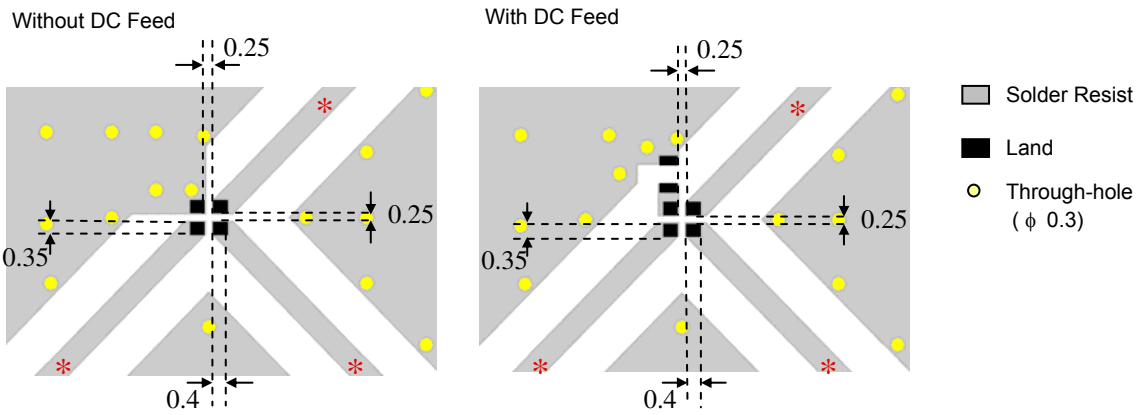


Mounting Considerations

Mount these devices with brown mark facing up.

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

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



Units: mm

JOHANSON TECHNOLOGY

www.johansontechnology.com

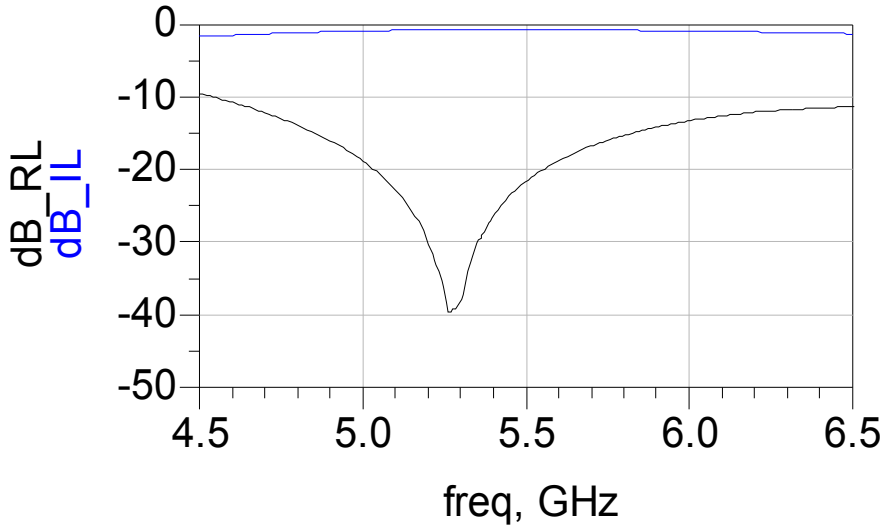
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

5.4 GHz EIA 0402 Ultra Low Profile 50:200Ω Balun **P/N 5425BL07A0200**

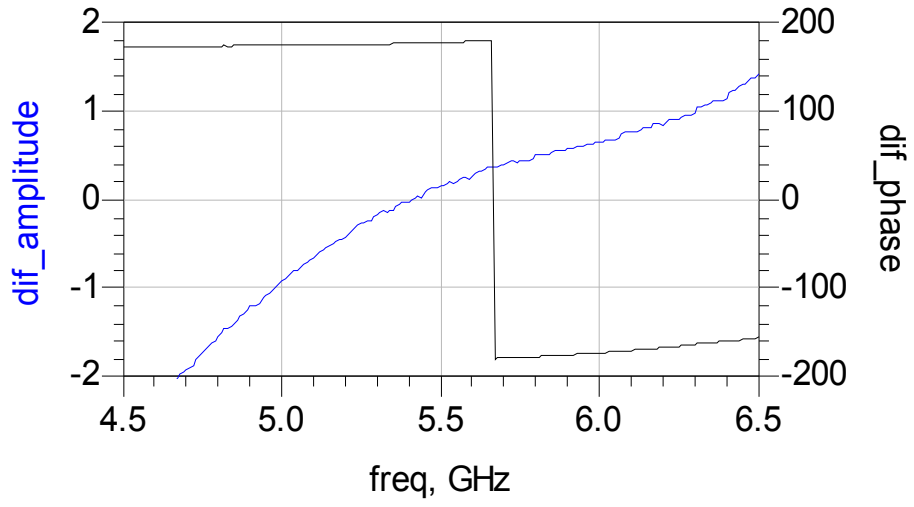
Detail Specification: 06/23/09

Typical Electrical Performance (T=25°C)

Insertion and Return Loss



Amplitude and Phase Balance



JOHANSON TECHNOLOGY

www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821