



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



High Frequency Ceramic Solutions

1.7GHz 1:2 Ratio RF Balun, EIA 0805 SMD

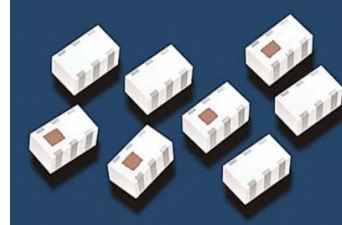
P/N 1600BL15B100

Detail Specification: 3/13/2014

Page 1 of 2

General Specifications

Part Number	1600BL15B100		
Unbalanced Impedance	50 Ω		
Differential Balanced Imp.	100 Ω		
Frequency 1 (MHz)	1500~1700		
Insertion Loss 1	1.0 dB max.		
Return Loss 1	9.5 dB min.	Frequency 2 (MHz)	1275~2200
Phase Difference 1	180° ± 10°	Insertion Loss 2	1.5 dB max.
Amplitude Difference	2.0 dB max.	Return Loss 2	8.5 dB min.
Power Capacity	3.0 watts max.(CW)	Phase Difference 2	180° ± 15°



Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.033 ± 0.004	0.85 ± 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	No.	Function
1	Unbalanced Port	4	Balanced Port
2	GND (when no DC feed needed), or DC Bias+ RF Bypass Cap (when DC feed needed)	5	GND
		6	NC
3	Balanced Port		

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 1600BL15B100S
		T & R	Suffix = E	eg. 1600BL15B100E
	Evaluation Board	1600BL15B100-EB1SMA (orderable item, 3-port female SMA 50Ohm board)		

Mounting Considerations

Mount these devices with brown mark facing up.

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

- Solder Resist
- Land
- Through-hole (φ 0.3)

Without DC feed

When DC feed Used

RF GND
Cap 10-15pF
EIA 0402 (1)

(1)The by-pass capacitor should be placed as close as possible to the pin2 of device

Want the layout file of the above? Send us a message at: www.johansontechnology.com/component/techquestion

Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821
ver 2.0 2014 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

1.7GHz 1:2 Ratio RF Balun, EIA 0805 SMD

P/N 1600BL15B100

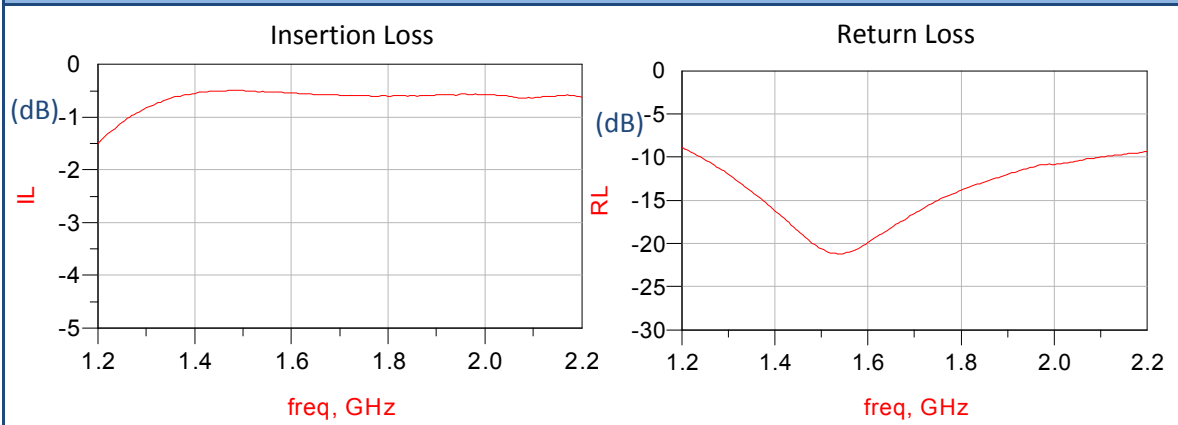
Detail Specification: 3/13/2014

Page 2 of 2

General Specifications

Reel Quantity	4,000 pcs	Operating Temperature	-40 to +85°C
Rec. Storage Conditions	+5 ~ +3° C, Humidity 45~75%RH		

Typical Electrical Performance (T=25°C)



More Baluns

www.johansontechnology.com/rfbaluns

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information (i.e. recommended profile)

www.johansontechnology.com/ipcsoldering-profile

Layout Files, s-parameters and any other technical questions

www.johansontechnology.com/component/techquestion/?Itemid=407

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

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

All sales are subject to Johanson Technology, Inc. terms and conditions.

