

High Frequency Ceramic Solutions

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

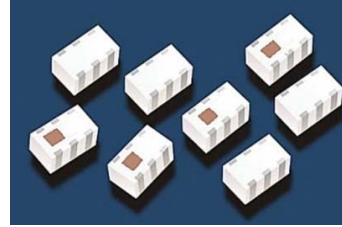
P/N 1600BL15B100

Detail Specification: 3/13/2014

Page 1 of 2

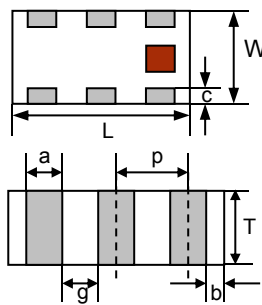
General Specifications

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.
Phase Difference 1	180° $\pm$ 10°
Amplitude Difference	2.0 dB max.
Power Capacity	3.0 watts max.(CW)
Frequency 2 (MHz)	1275~2200
Insertion Loss 2	1.5 dB max.
Return Loss 2	8.5 dB min.
Phase Difference 2	180° $\pm$ 15°



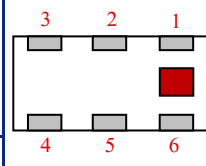
Mechanical Dimensions

	In	mm
L	0.079 $\pm$ 0.004	2.00 $\pm$ 0.10
W	0.049 $\pm$ 0.004	1.25 $\pm$ 0.10
T	0.033 $\pm$ 0.004	0.85 $\pm$ 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 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.2
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	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
3	Balanced Port	6	NC



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

Without DC feed

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)

RF GND
Cap 10-15pF
EIA 0402 (1)
When DC feed Used

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

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

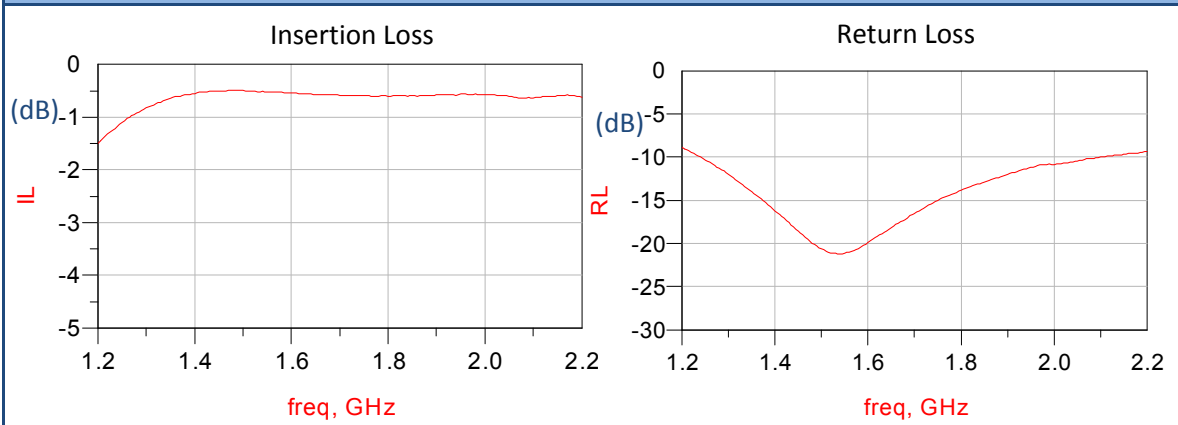
Detail Specification: 3/13/2014

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.



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

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com