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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.

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High Frequency Ceramic Solutions

Wideband Ceramic Balun, 1:4 Impedance Ratio, EIA 0805

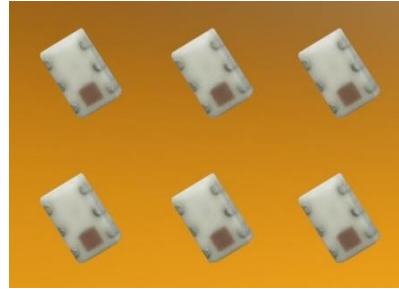
P/N 1720BL15B0200

Detail Specification: 1/22/2016

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General Specifications

Part Number	1720BL15B0200	Storage Temperature	-40 to +85°C
Frequency (MHz)	625 ~ 2815	Storage Period	18 months max.
Unbalanced Impedance	50 Ω	Recommended Storage Conditions of unused product on T&R	+5 to +35°C, 18 mos. max. Humidity 45~75% RH
Balanced Impedance	200 Ω		
Insertion Loss	1.5 dB max.		
Return Loss	9.5 dB min.		
Phase Difference	180 ± 10 deg.		
Amplitude Difference	1.0 dB max.		
CMRR	20 dB min.		
Power Capacity	2W max. (CW)		
Reel Quantity	4,000 pcs		
Operating Temperature	-40 to +85°C		



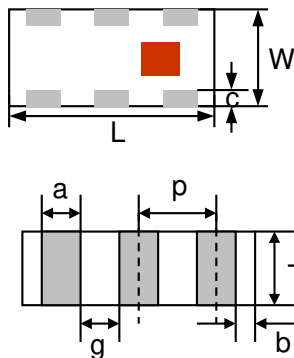
You can download measured s-parameters of this component at: <http://www.johansontechnology.com/baluns>

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 1720BL15B0200S
		T & R	Suffix = E	Eg. 1720BL15B0200E
	Termination style	100% Tin	Suffix = None	Eg. 1720BL15B0200 (E or S)
	Evaluation Board	1720BL15B0200-EB1SMA (3 female SMA connectors)		

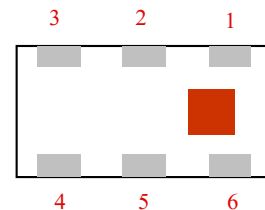
Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.037 ± 0.004	0.95 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +0.004/0.008	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

1	Unbalanced Port (IN)
2	GND or DC feed + RF GND
3	Balanced Port (OUT1)
4	Balanced Port (OUT2)
5	GND
6	NC



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High Frequency Ceramic Solutions

Wideband Ceramic Balun, 1:4 Impedance Ratio, EIA 0805

P/N 1720BL15B0200

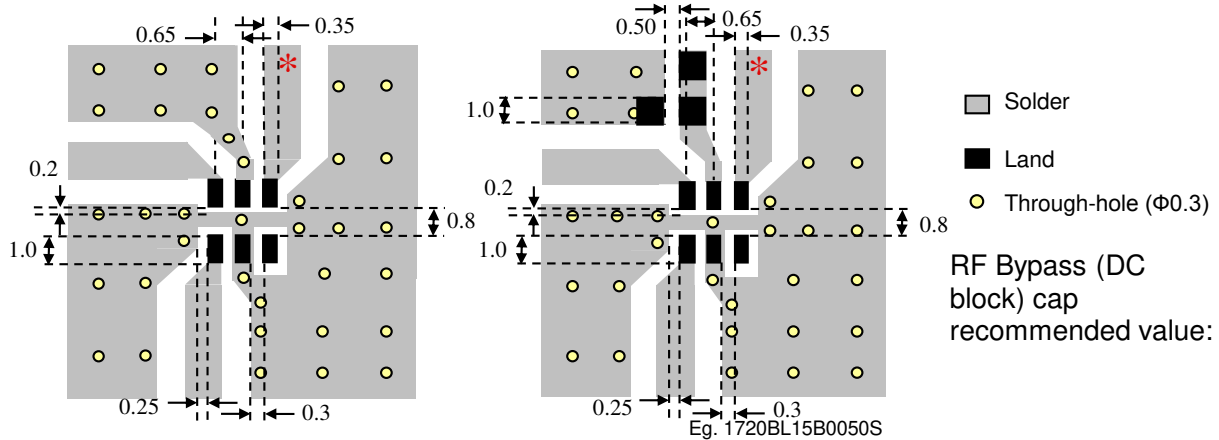
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Mounting Considerations

Mount these devices with colored mark facing up.

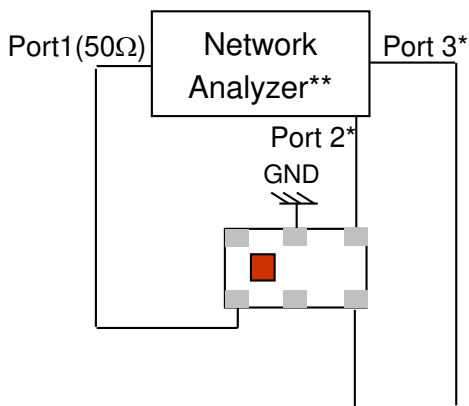
* Line width should be designed to provide 50ohm impedance matching characteristics.



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Measuring Diagram



Port 1: Unbalanced Port
Ports 2 and 3: Balanced Port

$IL = S_{ds21}$

$RL = S_{ss11}$

$Amp_balance = dB(S(2,1)/S(3,1))$

$Phase_balance = Phase(S(2,1)/S(3,1))$

*Impedance for ports 2 and 3 = Balanced Impedance/2

**E5071B from Agilent

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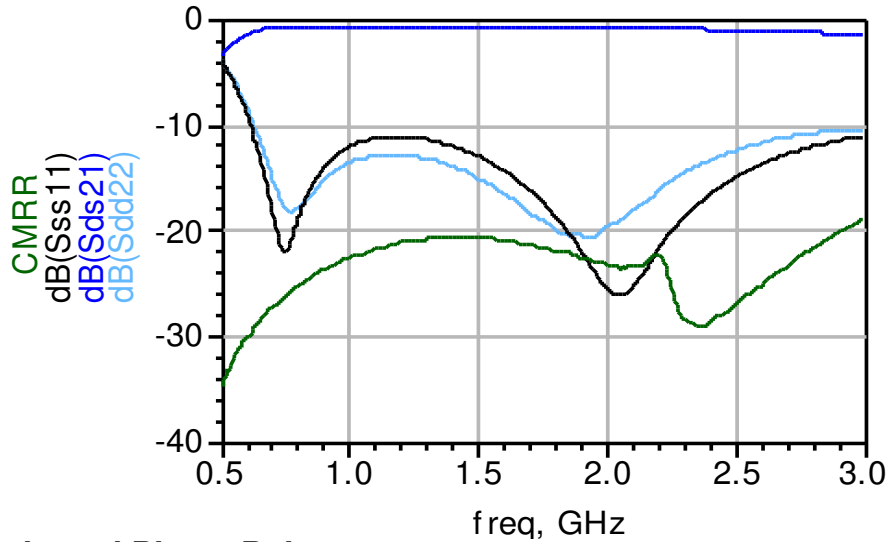
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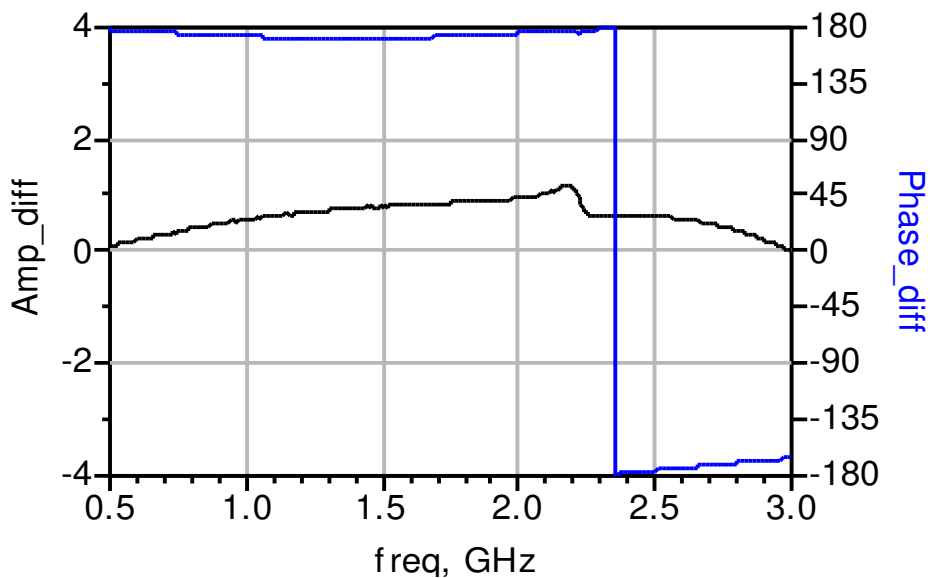
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Typical Electrical Characteristics (T=25°C)

Insertion and Return Loss



Amplitude and Phase Balance



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More Filter-Balun info at:

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