

High Frequency Ceramic Solutions

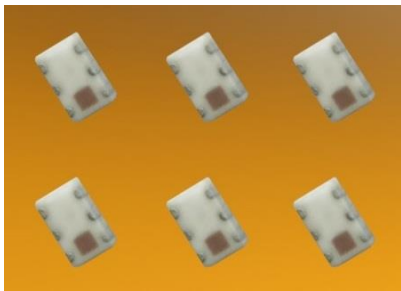
Wideband Ceramic Balun, 1:4 Impedance Ratio, EIA 0805

P/N 1720BL15B0200

Detail Specification: 1/22/2016

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General Specifications

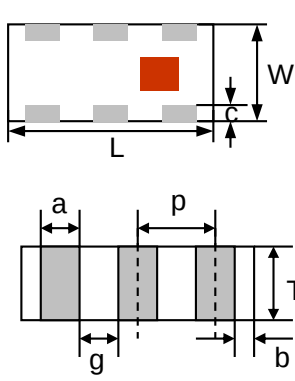
Part Number	1720BL15B0200		
Frequency (MHz)	625 ~ 2815		
Unbalanced Impedance	50 Ω		
Balanced Impedance	200 Ω		
Insertion Loss	1.5 dB max.		
Return Loss	9.5 dB min.		
Phase Difference	180 $\pm$ 10 deg.		
Amplitude Difference	1.0 dB max.		
CMRR	20 dB min.		
Power Capacity	2W max. (CW)		
Reel Quantity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

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

Part Number Explanation

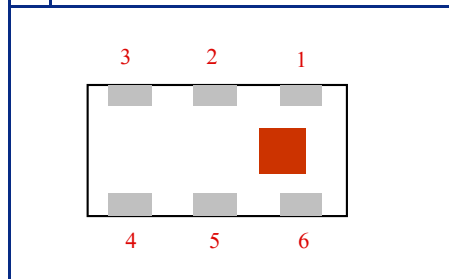
P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 1720BL15B0200S
		T & R	Suffix = E	Eg. 1720BL15B0200E
	Termination style	100% Tin	Suffix = None	Eg. 1720BL15B0200 (E or S)
	Evaluation Board	1720BL15B0200-EB1SMA (3 female SMA connectors)		

Mechanical Dimensions

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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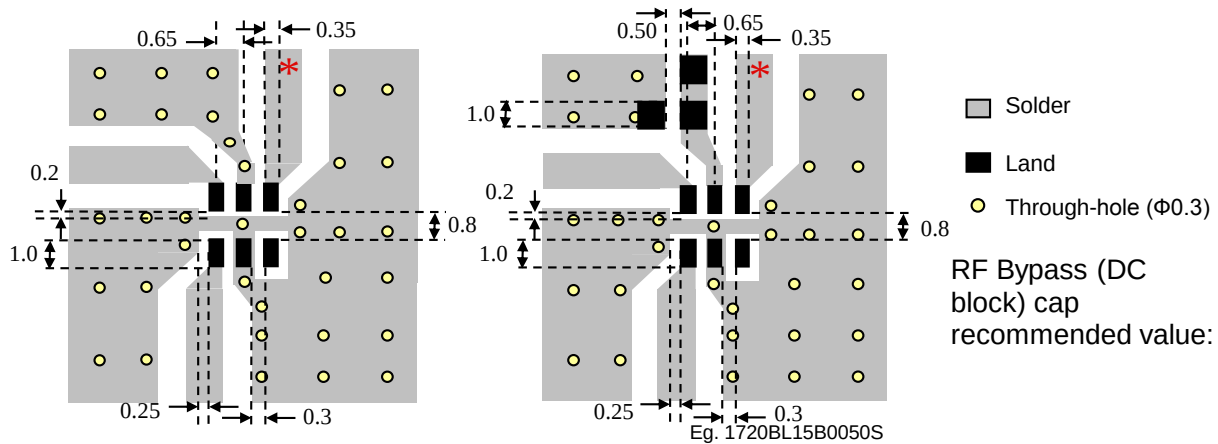
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Mounting Considerations

Mount these devices with colored mark facing up.

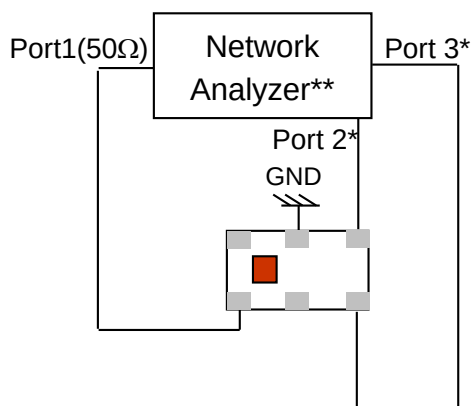
* Line width should be designed to provide 50ohm impedance matching characteristics.



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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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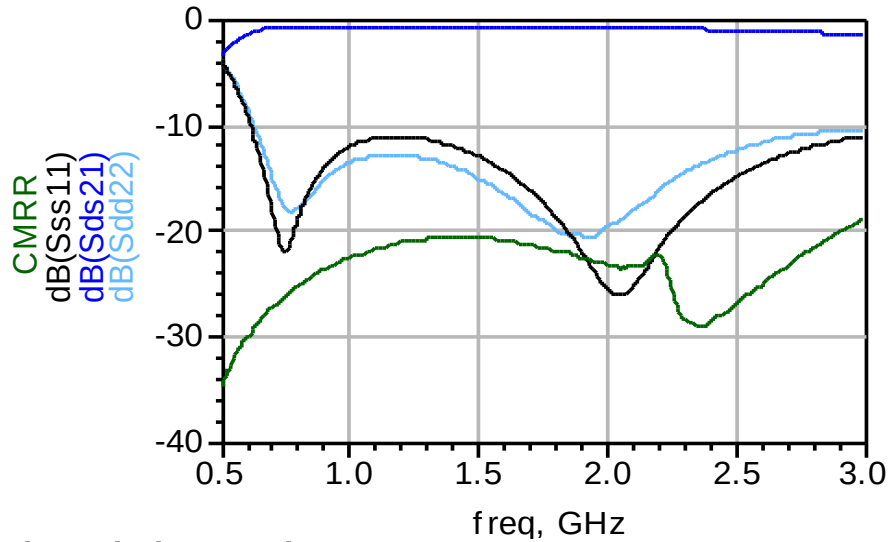
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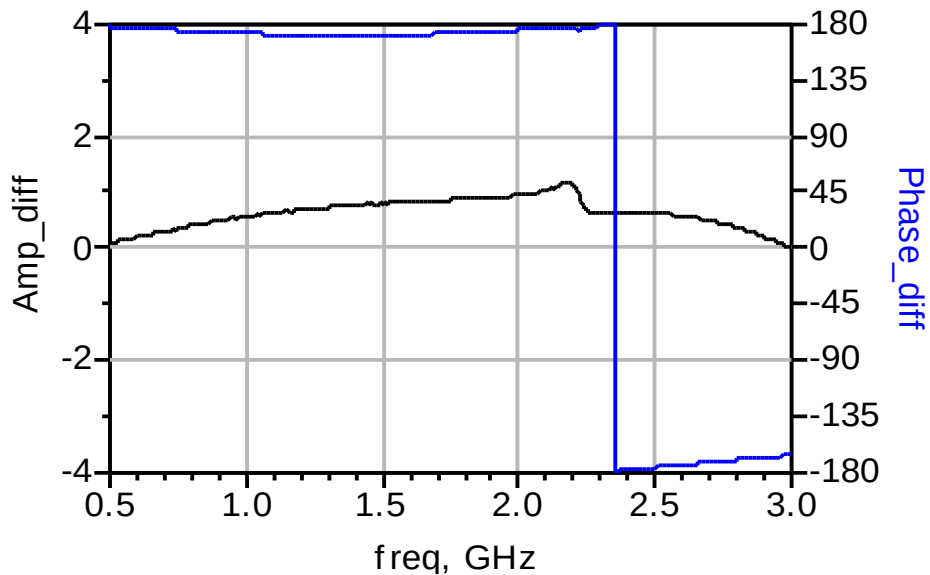
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Typical Electrical Characteristics (T=25°C)

Insertion and Return Loss



Amplitude and Phase Balance



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More Filter-Balun info at:

<http://www.johansontechnology.com/baluns>

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/typical-soldering-profile

MSL Info

www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/recommended-storage-conditions

RoHS Compliance

www.johansontechnology.com/rohs-compliance

Layout review services

www.johansontechnology.com/ask-a-question

Antenna layout review, tuning, and characterization services

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