5.5 GHz, 1:2 RF Balun, EIA 0805

Detail Specification:

P/N 5400BL15B100 Page 1 of 5

General Specifications			
Part Number	5400BL15B100		
Frequency (MHz)	4900 - 5900		
Unbalanced Impedance	50 Ω		
Balanced Impedance	100 Ω		
Reel Quantity	4,000 pcs		

4/9/2020

Operating Temperature-40 to +85°CRecommended Storage+5 to +35°C, 18 mos. max.Conditions of uninstalledHumidity 45~75% RH



Electrical Specifications					
Operating Temp	-40C to +85°C				
Insertion Loss @ BW (dB)	0.45 typ. (1.0 dB max.)				
Phase Balance (deg°)	180 ± 10				
Amplitude Difference (dB)	2 max.				
VSWR	1.24 typ. (2.0 max.)				
Power Capacity	2W max. (CW)				

If you need a free layotu review or would like the measured s-parameters of this component, please contact us at https://www.johansontechnology.com/ask-a-question

Part Number Explanation						
P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 5400BL15B100S		
		T&R	Suffix = E	Eg. 5400BL15B100E		
	Termination style	100% Tin	Suffix = None	Eg. 5400BL15B100 (E or S)		

W

Mechanical Dimensions						
	In	mm				
L	0.079 ± 0.004	2.00 ± 0.10				
w	0.049 <u>+</u> 0.004	1.25 ± 0.10				
т	0.033 ± 0.004	0.85 ± 0.10				
а	0.012 ± 0.004	0.30 ± 0.10	iai pi			
b	0.008 ± 0.004	0.20 ± 0.10				
С	0.012 +0.004/0.008	0.30 +0.1/-0.2				
g	0.014 ± 0.004	0.35 ± 0.10				
р	0.026 ± 0.002	0.65 ± 0.05	g			



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Mounting Considerations In Application using DC Feed



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dB

-10

-20

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-1.0

-2.0

-3.0

dB

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Equivalent Circuit (Marchand-Type Balun) Pin 6: floating pin (do not connect) Unbalanced PAN 10- $\lambda/4$ $\lambda/4$ $\lambda/4$ **PIN2/5** λ/4 PIN2/5 PIN4 凸 Balanced Balanced Port2 Port1

More Balun info such as measured s-parameters and ordering info at: https://www.johansontechnology.com/baluns

Packaging information

https://www.johansontechnology.com/tape-reel-packaging

Soldering Information

https://www.johansontechnology.com/ipcsoldering-profile

MSL Info

https://www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

https://www.johansontechnology.com/recommended-storage-conditions

RoHS Compliance

https://www.johansontechnology.com/rohs-compliance

Layout review services

https://www.johansontechnology.com/ask-a-question

Antenna layout review, tuning, and characterization services

https://www.johansontechnology.com/ipc-antenna-services

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