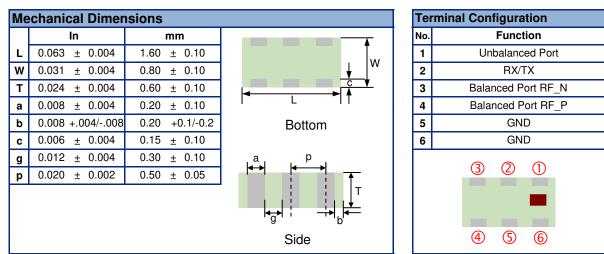


P/N Suffix Packaging Style T & R Suffix = T eg. 0850BM14E0016T	
100% Tin Suffix = None eg. 0850BM14E0016(T or S	S)



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



https://www.johansontechnology.com

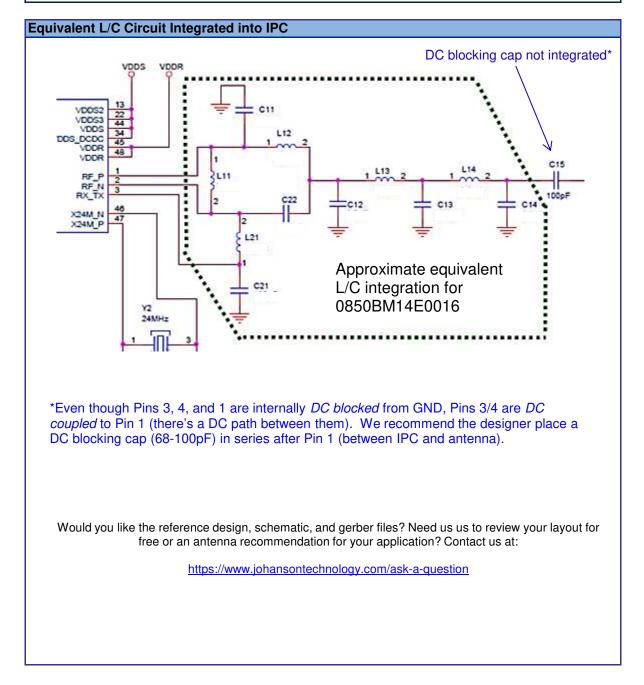
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821 Ver. 2.4

2021 Johanson Technology, Inc. All Rights Reserved

Sub-GHz Impedance Matched Balun + LPF integrated Passive Component for Texas Instruments' CC1310, CC1312 Chipsets 9/9/2021 Detail Specification:



Page 2 of 5



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

Ver. 2.4

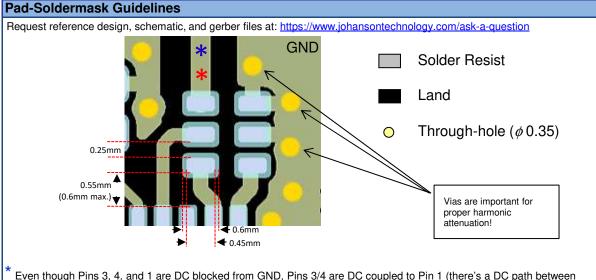


https://www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821 2021 Johanson Technology, Inc. All Rights Reserved

Sub-GHz Impedance Matched Balun + LPF integrated Passive Component for Texas Instruments' CC1310, CC1312 Chipsets Detail Specification: 9/9/2021 P/N: 0850BM14E0016

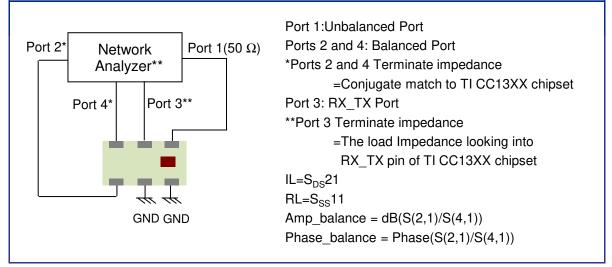
Page 3 of 5



Even though Pins 3, 4, and 1 are DC blocked from GND, Pins 3/4 are DC coupled to Pin 1 (there's a DC path between them). We recommend the designer place a DC blocking cap (68-100pF) in series after Pin 1 (between IPC and antenna) per page 2 of the datasheet.

[•] Line width should be designed to match 500hm characteristic impedance, depending on PCB material and thickness. Grounded CPWG is recommended.

Measurement Diagram



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

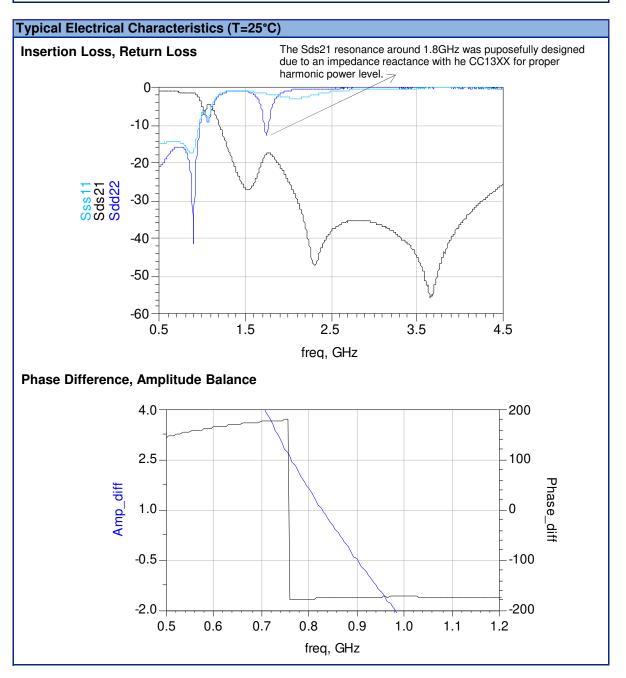


https://www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821 Ver. 2.4 2021 Johanson Technology, Inc. All Rights Reserved

Sub-GHz Impedance Matched Balun + LPF integrated Passive Component for Texas Instruments' CC1310, CC1312 Chipsets Detail Specification: 9/9/2021 P/N: 0850BM14E0016

Page 4 of 5



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



https://www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver. 2.4

2021 Johanson Technology, Inc. All Rights Reserved

Sub-GHz Impedance Matched Balun + LPF integrated Passive Component for Texas Instruments' CC1310, CC1312 Chipsets Detail Specification: 9/9/2021 P/N: 0850BM14E0016

Page 5 of 5

Application Notes, Layout Files, and more

https://www.johansontechnology.com/ti

Small SMD 433MHz (or 900M, 2.4G, 5G) antennas

https://www.johansontechnology.com/antennas

RoHS Compliance

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

Soldering Information

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

Antenna layout and tuning techniques
<u>https://www.johansontechnology.com/tuning</u>

Antenna layout review, tuning, and characterization services

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

MSL Info

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

Recommended Storage Condition and Max Shelf Life

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

Packaging information

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

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



https://www.johansontechnology.com 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver. 2.4

2021 Johanson Technology, Inc. All Rights Reserved