imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



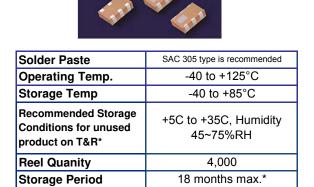
2.45GHz Impedance Matched Balun-Filter for Atmel Chipset AT86RF232 and AT86RF233. Platforms: ATmega256/128/64RFR2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233, SAM R21, ATMEGA256RFR2 Xplained Pro.

P/N 2450BM15A0015

Detail Specification: 12/5/2016

Page 1 of 4

Impedance matching network, balun, and harmonic filter all in one EIA 0805 package!				
General Specifications				
Part Number	2450BM15A0015			
Frequency (MHz)	2400~2500			
Unbalanced Impedance	50 Ω			
Differential Balanced Impedance	Impedance match to: Atmel AT86RF232, AT86RF233, ATmega256/128/64RFR2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233, SAM R21			
Insertion Loss (-40C to +85C)	1.1dB Typ, 1.5 dB max.			
Insertion Loss (-40C to +125C)	1.3dB Typ, 1.9 dB max.			
Return Loss	9.5 min.			
Phase Difference	180 ± 10 (deg)			
Amplitude Difference	2.0 dB max.			
Power Capacity	2 Watt max. (CW)			
Differential Mode Attenuation	20dB min. @2Fo			
	20dB min. @3Fo			
Common Mode Rejection	20dB min. @2Fo			



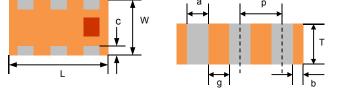
*18 months in vacuum sealed bag and 1 week cumulative after opened. For more info and proper handling go to: www.johansontechnology.com/silverleads

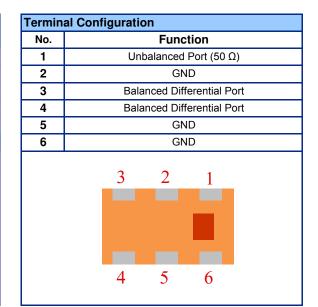
Part Number Explanation

JOHANSON TECHNOLOGY

P/N Suffix	Packing Style	Bulk (Loose)	Suffix = S	eg. 2450BM15A0015S	
		T&R	Suffix = E	eg. 2450BM15A0015E	
	Termination style	AgPt	Suffix = None	eg. 2450BM15A0015 (E or S)	
	Evaluation Board		2450BM15A0015-EBSMA		

Ме	Mechanical Dimensions				
	In	mm			
L	0.079 ± 0.004	2.00 ± 0.10			
W	0.049 ± 0.004	1.25 ± 0.10			
Т	0.031 ± 0.004	0.80 ± 0.10			
а	0.012 ± 0.004	0.30 ± 0.10			
b	0.008 ± 0.004	0.20 ± 0.10			
С	0.012 +.004/008	0.30 +0.1/-0.2			
g	0.014 ± 0.004	0.35 ± 0.10			
р	0.026 ± 0.002	0.65 ± 0.05			
		ја, р			





www.johansontechnology.com

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

Ver 6.3

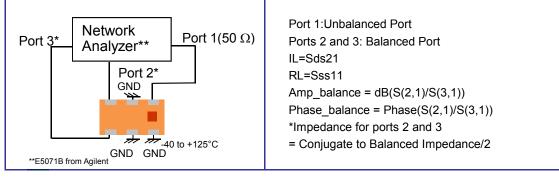
2016 Johanson Technology, Inc. All Rights Reserved

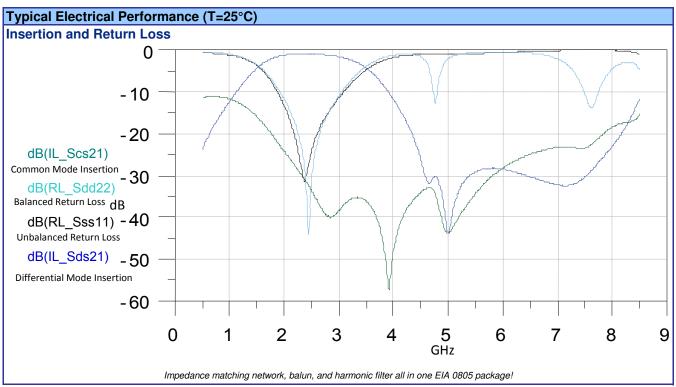
2.45GHz Impedance Matched Balun-Filter for Atmel Chipset AT86RF232 and AT86RF233. Platforms: ATmega256/128/64RFR2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233, SAM R21, ATMEGA256RFR2 Xplained Pro. Detail Specification: 12/5/2016

P/N 2450BM15A0015

Page 2 of 4

Measuring Diagram





Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. 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



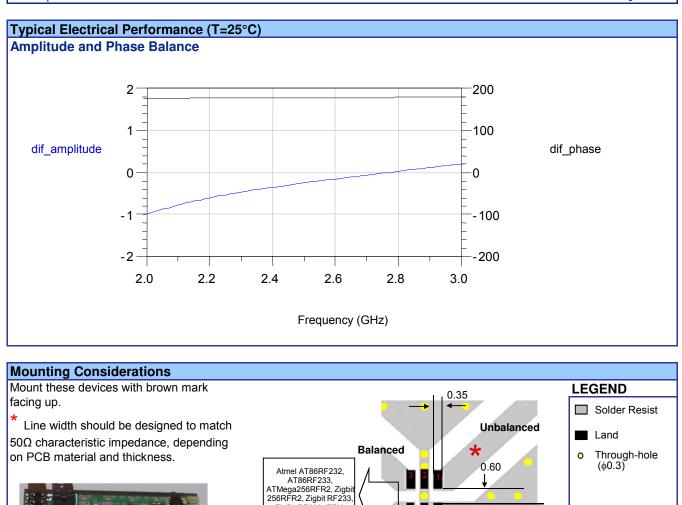
Ver 6.3

2016 Johanson Technology, Inc. All Rights Reserved

2.45GHz Impedance Matched Balun-Filter for Atmel Chipset AT86RF232 and AT86RF233. Platforms: ATmega256/128/64RFR2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233, SAM R21, ATMEGA256RFR2 Xplained Pro. Detail Specification: 12/5/2016

P/N 2450BM15A0015

Page 3 of 4





REB233mkII V8.6.1 EVB Example

Balanced

Impedance matching network, balun, and harmonic filter all in one EIA 0805 package!

For layout/gerber files for this and other Atmel reference designs, go to: www.johansontechnology.com/atmel

1.00

Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

Units : mm

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

ZigBit RF233+FEM, Extension RF233, USB

2016 Johanson Technology, Inc. All Rights Reserved

2.45GHz Impedance Matched Balun-Filter for Atmel Chipset AT86RF232 and AT86RF233. Platforms: ATmega256/128/64RFR2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233, SAM R21, ATMEGA256RFR2 Xplained Pro. Detail Specification: 12/5/2016

P/N 2450BM15A0015

Page 4 of 4

Component Handling

www.johansontechnology.com/silverleads

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services www.johansontechnology.com/ipcantennaservices

Pad metalization information

www.johansontechnology.com/silverleads

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommneded Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

Application Notes, Layout Files, and more

www.johansontechnology.com/atmel

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

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

2016 Johanson Technology, Inc. All Rights Reserved

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