430/403 MHz Impedance Matched Balun/LPF Integrated Component for T.I. Chipsets: CC1100, CC1101, CC110L, CC1111, CC1130, CC1131, CC1150, CC1151, CC113L, CC115L, CC430 and RF430.

P/N 0433BM15A0001

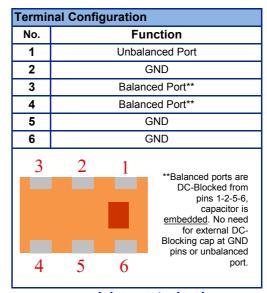
10/27/2015 Detail Specification: Page 1 of 4

General Specifications						
Part Number	0433BM15A0001	This balun-filter works great with 430/433MHz ISM, 403.5MHZ MICS bands and any frequencies in between				
Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430 Chipsets					
Unbalanced Impedance	50 Ω	mequenties in section	•			
Recommended Storage	+5 ~ +35 °C, Humidity	Input Power	1W max. (CW)			
Conditions	45~75%RH, 18 months. 1	Reel Quanity	4,000			
Conditions	week max after opened*	Frequency 2 (MHz)	402 - 405			
Frequency 1 (MHz)	430 - 435	Insertion Loss 2	1.9 dB max.			
Insertion Loss 1	1.9 dB max.		25 min. @ 2FO			
	34 min. @ 2FO	Attanuation 2 (min.)	35 min. @ 3FO			
Attanuation 4 (min.)	35 min. @ 3FO	Attenuation 2 (min.)	35 min. @ 4FO			
Attenuation 1 (min.)	35 min. @ 4FO		35 min. @ 5FO			
	35 min. @ 5FO	Return Loss 2	9.5 dB max.			
Return Loss 1	9.5min	Phase Difference 2	180° ± 10			
Phase Difference 1	180° ± 10	Amplitude Difference 2	3.0 dB max.			
Amplitude Difference 1	1.5 dB max.	Operating Temperature	-40 to +85°C			

^{*}For more info go to www.johansontechnology.com/silverleads

Part Number Explanation						
P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 0433BM15A0001S		
		T&R	Suffix = T	eg. 0433BM15A0001E		
	Termination style	AgPt	Suffix = None	eg. 0433BM15A0001(E or S)		

Mechanical Dimensions						
	In		mm			
L	0.079	± 0.004	2.00 ± 0.10			
W	0.049	± 0.004	1.25 ± 0.10			
Т	0.028	± 0.004	0.70 ± 0.10			
а	0.012	± 0.004	0.30 ± 0.10			
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			
$\begin{array}{c c} & & & \\ & & & \\ \hline \\ & & \\ \end{array}$						





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430/403 MHz Impedance Matched Balun/LPF Integrated Component for T.I. Chipsets: CC1100, CC1101, CC110L, CC1111, CC1130, CC1131, CC1150, CC1151, CC113L, CC115L, CC430 and RF430.

P/N 0433BM15A0001

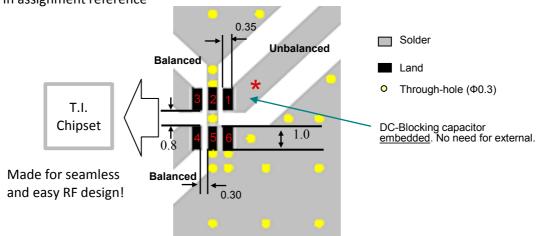
Detail Specification: 10/27/2015 Page 1 of 3

Mounting Considerations

Mount these devices with brown mark facing up. Units: mm

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

Pin assignment reference



To obtain application notes, information how to implement this component, or obtain gerber files, go to: www.johansontechnology.com/ti or contact our Apps Engineering Team at: www.johansontechnology.com/component/techquestion/?Itemid=407



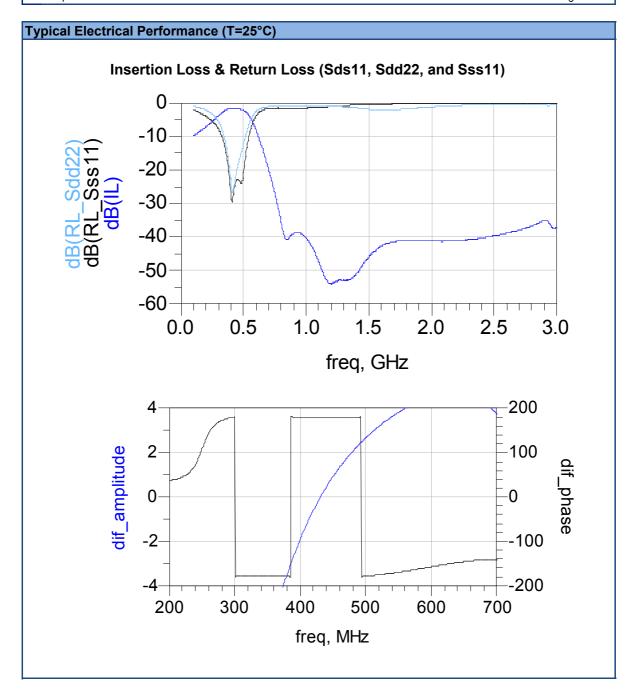
Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



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P/N 0433BM15A0001

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RoHS Compliance

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

Packaging information

www.johansontechnology.com/jpcpackaging.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/ti.html

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