



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!



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"High Frequency Ceramic Solutions"


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

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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		
Recommended Storage Conditions	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1 week max after opened*	Input Power	1W max. (CW)
Frequency 1 (MHz)	430 - 435	Reel Quantity	4,000
Insertion Loss 1	1.9 dB max.	Frequency 2 (MHz)	402 - 405
Attenuation 1 (min.)	34 min. @ 2FO	Insertion Loss 2	1.9 dB max.
	35 min. @ 3FO	Attenuation 2 (min.)	25 min. @ 2FO
	35 min. @ 4FO		35 min. @ 3FO
	35 min. @ 5FO		35 min. @ 4FO
			35 min. @ 5FO
Return Loss 1	9.5min	Return Loss 2	9.5 dB max.
Phase Difference 1	180° ± 10	Phase Difference 2	180° ± 10
Amplitude Difference 1	1.5 dB max.	Amplitude Difference 2	3.0 dB max.
		Operating Temperature	-40 to +85°C

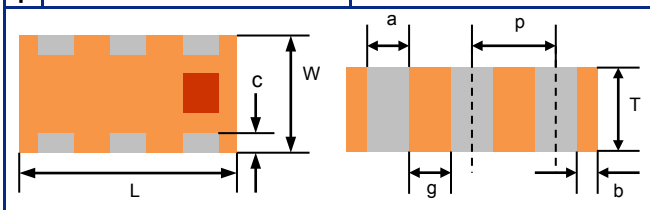
*For more info go to www.johansontechnology.com/silverleads

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)

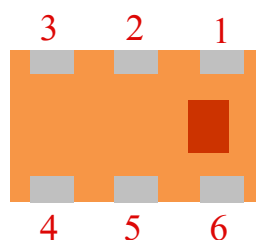
Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.028 ± 0.004	0.70 ± 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

No.	Function
1	Unbalanced Port
2	GND
3	Balanced Port**
4	Balanced Port**
5	GND
6	GND



**Balanced ports are DC-Blocked from pins 1-2-5-6, capacitor is embedded. No need for external DC-Blocking cap at GND pins or unbalanced port.



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Ver 2.2

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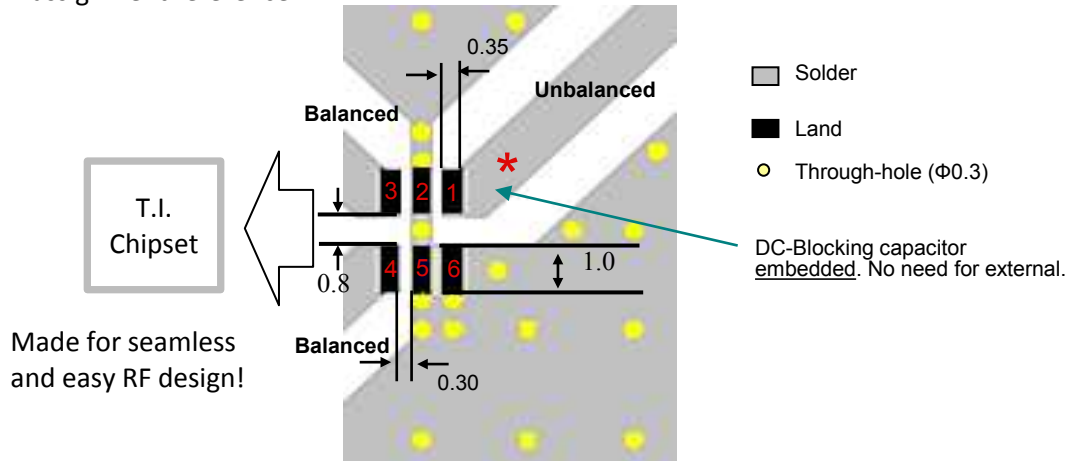
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Mounting Considerations

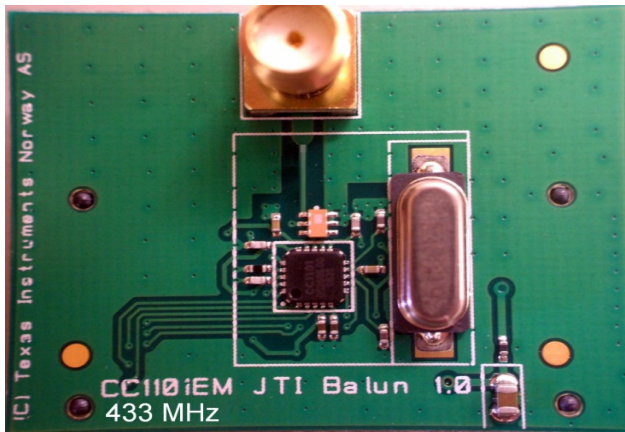
Mount these devices with brown mark facing up. Units: mm

*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



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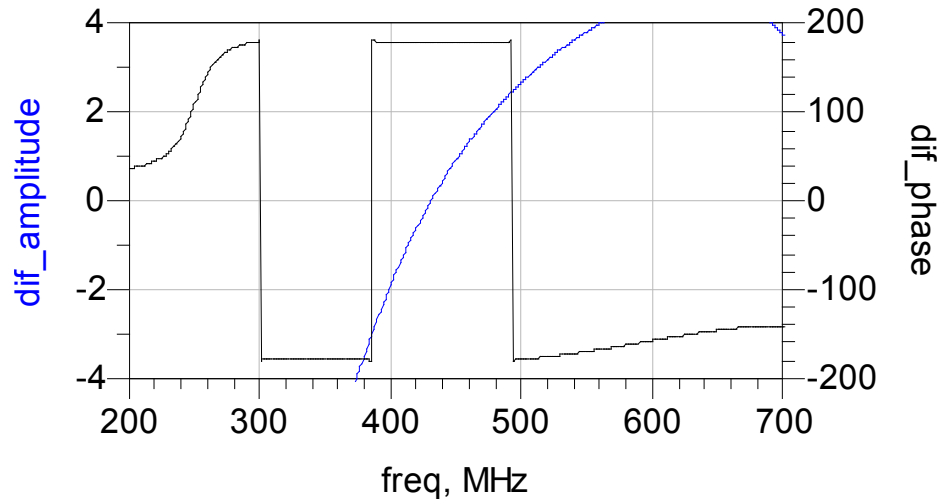
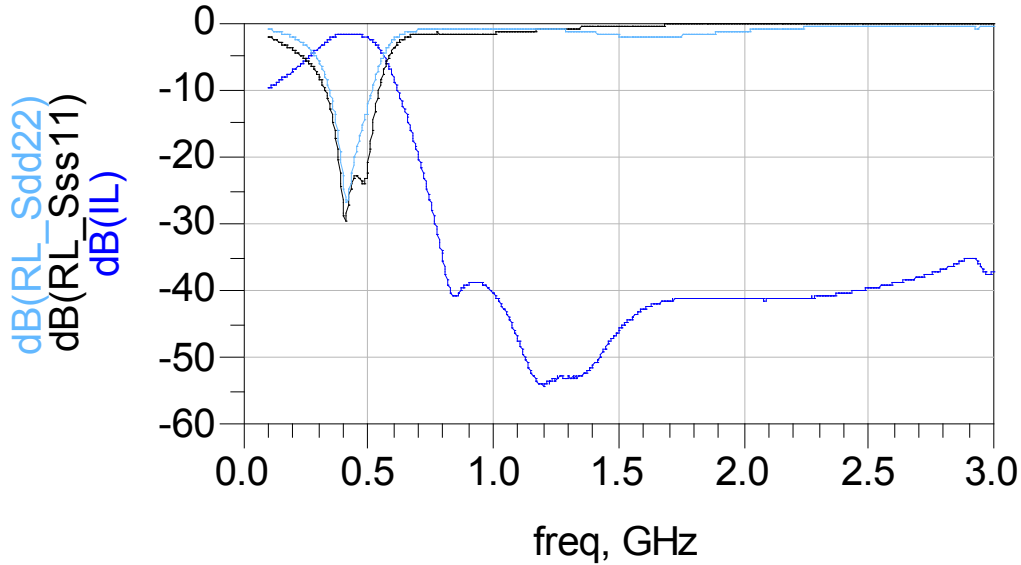
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Typical Electrical Performance (T=25°C)

Insertion Loss & Return Loss (Sds11, Sdd22, and Sss11)



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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

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

Application Notes, Layout Files, and more

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