

"High Frequency Ceramic Solutions"

430/403 MHz Impedance Matched Balun/LPF Integrated Component for T.I.

P/N 0433BM15A0001

Chipsets: CC1100, CC1101, CC110L, CC1111, CC1130, CC1131, CC1150, CC1151, CC113L, CC115L and CC430.

Detail Specification: 12/21/12

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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 and		
Unbalanced Impedance	50 Ω		
Recommended Storage Conditions	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1 week max after opened*		
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
Return Loss 1	1.9 dB max.		35 min. @ 5FO
Phase Difference 1	180° $\pm$ 10	Return Loss 2	9.5 dB max.
Amplitude Difference 1	1.5 dB max.	Phase Difference 2	180° $\pm$ 10
Input Power	1W max.	Amplitude Difference 2	3.0 dB max.
		Operating Temperature	-40 to +85°C

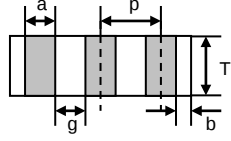
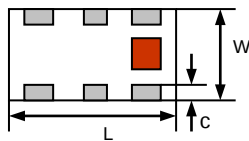
*For more info go to

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)

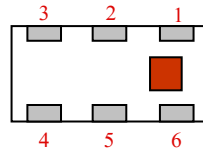
Mechanical Dimensions

	In	mm
L	0.079 $\pm$ 0.004	2.00 $\pm$ 0.10
W	0.049 $\pm$ 0.004	1.25 $\pm$ 0.10
T	0.028 $\pm$ 0.004	0.70 $\pm$ 0.10
a	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
b	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
c	0.012 + +0.004/-0.004	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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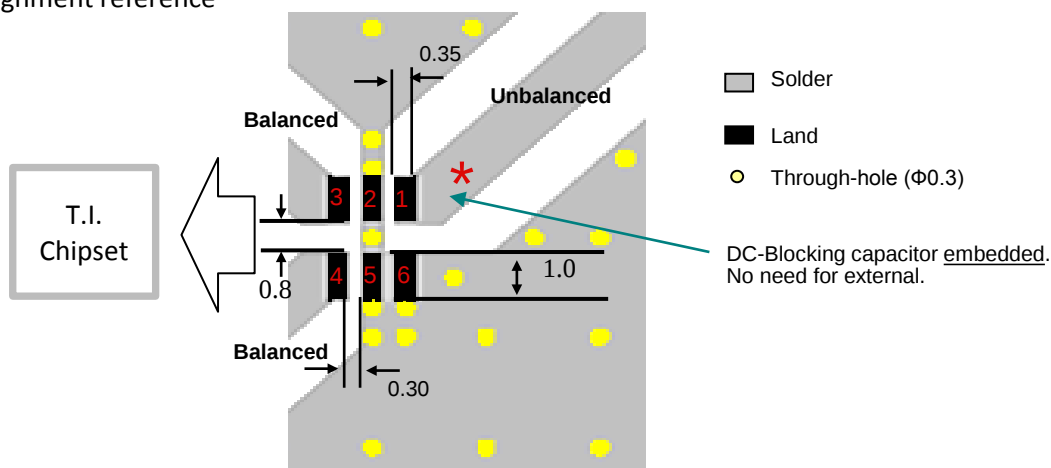
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Mounting Considerations

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

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

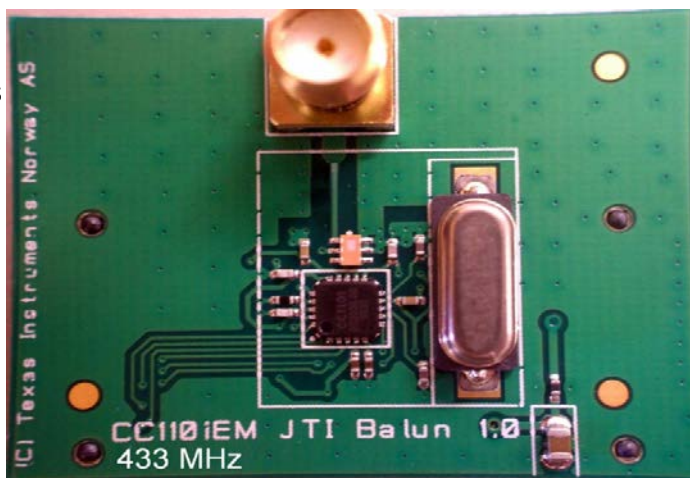
Pin assignment reference



Made for seamless and easy RF design!

To see complete Design Note, go to:
www.johansontechnology.com/images/stories/ip/baluns/swra250a.pdf

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Typical Electrical Performance (T=25°C)

