

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

868MHz Impedance Matched/Balun/BPF Integrated Component for T.I. CC110X, P/N 0868BM15C0001 CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430

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General Specifications				
Part Number	ımber 0868BM15C0001 Insertion Loss		2.1 dB max.	
Operating Frequency	863 - 873 (MHz)	Return Loss	9.5 dB min.	
Unbalanced Impedance	50 Ω	Phase Difference	180° ± 15	
Balanced Impedance	CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and	Amplitude Difference	1.5 dB max.	
		Input Power	1W max. (CW)	
		Reel Quanity	4,000	
	10 dB min. @ 699MHz	Operating Temperature	-40 to +85°C	
	30 dB min. @ 1736MHz	04	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1	
Attenuation*	30 dB min. @ 2604MHz	Storage Temperature Range		
	35 dB min. @ 3472MHz	Tungo	week max after opened**	
	30 dB min. @ 4340MHz	**For more info go to www.io	hansontechnology com/silverleads	

^{*} Band Pass Filtering

Part Number Explanation					
P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 0868BM15C0001S	
		T&R	Suffix = E	Eg. 0868BM15C0001E	
	Termination style	AgPt	Suffix = None	Eg. 0868BM15C0001 (E or S)	
	Evaluation Board	0868BM15C0001-EBSMA			

Ме	Mechanical Dimensions					
	In	mm				
L	0.079 ± 0.004	2.00 ± 0.10	.c w			
W	0.049 ± 0.004	1.25 ± 0.10	<u>↓</u>			
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 +.004/008	0.30 +0.1/-0.2	ŢΤ			
g	0.014 ± 0.004	0.35 ± 0.10				
р	0.026 ± 0.002	0.65 ± 0.05				

Terminal Configuration					
No.	F	unction		No.	Function
1	Unba	alanced Port		4	Balanced Port***
2		GND		5	GND
3	Balar	nced Port***		6	GND
		3	2	1	
				ė	
		4	5	6	!

***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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Mounting Considerations Mount these devices with brown mark facing up. Units: mm Unbalanced trace/port must exhibit a 50Ω characteristic impedance # Pin assignment reference 0.35 □ Solder Unbalanced Land Through-hole (Φ0.3) **Balanced** CC11XX 0.80 CC430 1.00 Balanced -DC-Blocking capacitor embedded. no need for external DC-Block. -No need for external additional discrete filtering

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

0.30







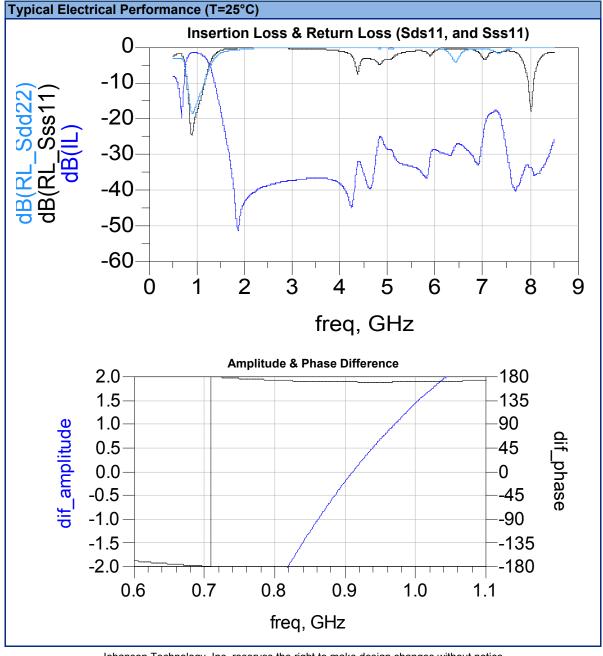
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"High Frequency Ceramic Solutions"

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RoHS Compliance

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

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/ti.html

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