868/915 MHz Impedance Matched/Balun/LPF Integrated Component for T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430

P/N 0896BM15A0001E-AEC

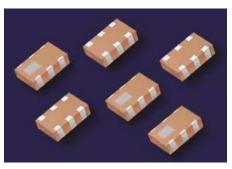
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AEC-Q200 Qualified

Phase Difference

Amplitude Difference

7120 G200 G3G11110G			
General Specifications			
Part Number	0896BM15A0001E-AEC		
Operating Frequency	863 - 928 Mhz		
Insertion Loss 1 (dB)	1.5 dB max (-40C to +85C)		
Insertion Loss 2 (dB)	1.55 dB max (-40C to +125C)		
Return Loss (dB)	9.5 min.		
Unbalanced Impedance	50 Ω		
Differential Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430 Chipsets		
Attenuation (dB)	25 min.@ 1726 - 1856MHz 35 min.@ 2589 - 2784MHz 35 min.@ 3452 - 3712MHz		



Recommended Storage	+5 to +35°C
Conditions for unused	Humidity 45~75%RH
T&R product	18 months max.
Power Rating	1W max. (CW)
Operating Temperature	-40 to +125°C
Reel Quantity (pcs/reel)	4,000

^{*18} months max. in vacuum sealed bag and 1 week after opened. Please keep unused parts in vacuum sealed bags. For more info go to https://www.johansontechnology.com/silverleads-profile.

35 min.@ 4315 - 4640MHz

180° ± 10

1.5 dB max.

Part Number Explanation				
	Packing Style	Bulk	Suffix = S	E.g. 0896BM15A0001S-AEC
P/N Suffix		T&R	Suffix = E	E.g. 0896BM15A0001E-AEC
	Termination Style	Ag/Pt	Suffix = None	E.g. 0896BM15A0001(E or S)-AEC
	Evaluation Board	50Ω SMA	Suffix = EBSMA	E.g. 0896BM15A0001-EBSMA

Ме	chanical Dimens	sions
	ln	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 +.004/008	0.30 +0.1/-0.2
g	0.014 0 0.004	0.35 0.10
р	0.026 0 0.002	0.65 0.05

Ter	Terminal Configuration			
No.		Function		
1		Unbalanced Port		
2		GND		
3		Balanced Port		
4		Balanced Port		
5		GND		
6		GND		
		3	2	①
		4	(5)	6



868/915 MHz Impedance Matched/Balun/LPF Integrated Component for T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430

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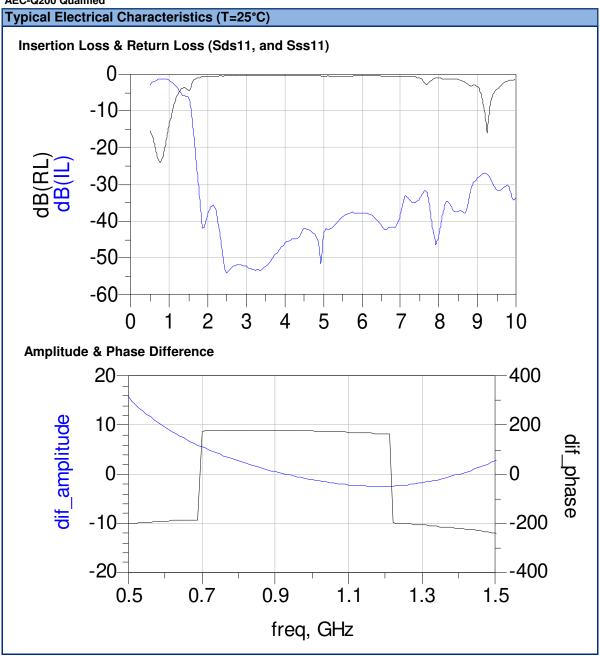
AEC-Q200 Qualified Mounting Considerations * Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness. Mount device with colored mark facing up. # Pin reference Unbalanced ☐ Solder Land **Balanced** Through-hole (ϕ 0.3) CC11XX CC430 1.0 100pF (EIA 0402 or 0603) Blocking Capacitor.@ 45 or **Balanced** 90 deg Pin#6 connected to ground. Units: mm To Antenna Port Additional output filtering may be required depending on output power in order to comply with FCC and/or ETSI regulations. Mount device with colored mark facing up. To obtain application notes, information how to implement this component, or obtain gerber files, go to: https://www.johansontechnology.com/ti 1.8pF or contact our Apps Engineering Team at: https://www.johansontechnology.com/ask-a-question Component P/N: 5.6nH Inductor: L-07C5N6SV6T 1.8pF Capacitor: 500R07S1R8BV4T



868/915 MHz Impedance Matched/Balun/LPF Integrated Component for T.I. CC110X, P/N 0896BM15A0001E-AEC CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430

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AEC-Q200 Qualified





868/915 MHz Impedance Matched/Balun/LPF Integrated Component for T.I. CC110X, P/N 089 CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430

P/N 0896BM15A0001E-AEC

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AEC-Q200 Qualified

Application Notes, Layout Files, and more

https://www.johansontechnology.com/baluns

Packaging information

https://www.johansontechnology.com/tape-reel-packaging

Soldering Information

https://www.johansontechnology.com/ipcsoldering-profile

MSL Info

https://www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

https://www.johansontechnology.com/recommended-storage-conditions

RoHS Compliance

https://www.johansontechnology.com/rohs-compliance

Antenna layout and tuning techniques

https://www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

https://www.johansontechnology.com/ipc-antenna-services

