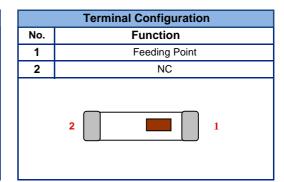
868 MHz Antenna for small form factor applications AEC-Q200 Qualified Detail Specification: 6/12/2017

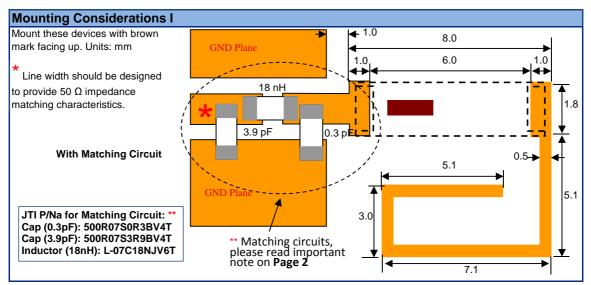
P/N 0868AT43A0020E-AEC Page 1 of 5

General Specifications						
Part Number	0868AT43A0020E-AEC		Input Power	3W max. (CW)		
Frequency Range	858 - 878 Mhz		Impedance	50 Ω		
Peak Gain	-1.0 dBi typ. (XZ-total)		Operating Temperature	-40 to +105°C		
Average Gain	-4.0 dBi typ. (XZ-total)		Reel Quanity	1,000		
Return Loss	9.5 dB min.		MSL	1		

Part Number Explanation							
P/N Suffix	Pooking Style	Bulk	Suffix = S	eg. 0868AT43A0020S-AEC			
	Packing Style	T & R	Suffix = E	eg. 0868AT43A0020E-AEC			
	Termination style	100% Tin	Suffix = None	eg. 0868AT43A0020 (E or S)-AEC			
		Tin / Lead	Please Consult Factory				

Mechanical Dimensions						
	In	mm				
L	0.276 ± 0.008	7.00 ± 0.20				
w	0.079 ± 0.008	2.00 ± 0.20				
т	0.031 + .004/008	0.80 + 0.1/-0.2				
а	0.020 ± 0.012	0.50 ± 0.30				





Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.





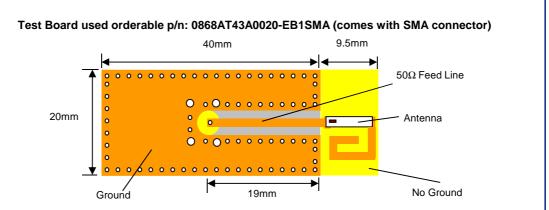
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821 2016 Johanson Technology, Inc. All Rights Reserved

Ver 1.8

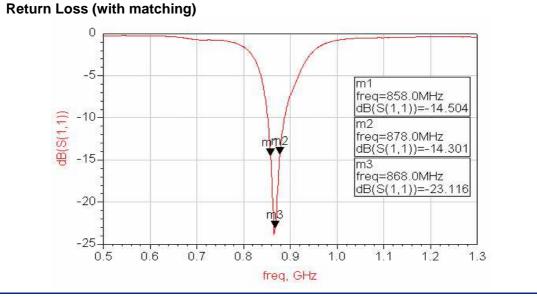
 868 MHz Antenna for small form factor applications AEC-Q200 Qualified
 P/N 0868AT43A0020E-AEC

 Detail Specification:
 6/12/2017
 Page 2 of 5

Mounting Considerations I



Note: It is recommended that the designer leave available slots for a "pi" (or shunt-seriesshunt) network. The antenna matching network values above are used when antenna is monted on Johanson's evaluation board. The matching values on clinet's PCB will be different. Go to: www.johansontechnology.com/tuning and see how to obtain the new values. If you need further help, contact our RF Applications Eng Team at: www.johansontechnology.com/ask-a-question



Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



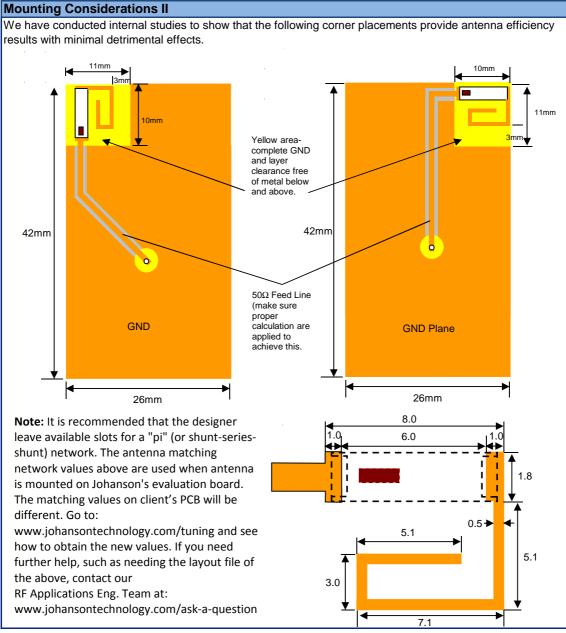
www.johansontechnology.com

 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

 Ver 1.8
 2016 Johanson Technology, Inc. All Rights Reserved

 868 MHz Antenna for small form factor applications AEC-Q200 Qualified
 P/N 0868AT43A0020E-AEC

 Detail Specification:
 6/12/2017
 Page 3 of 5



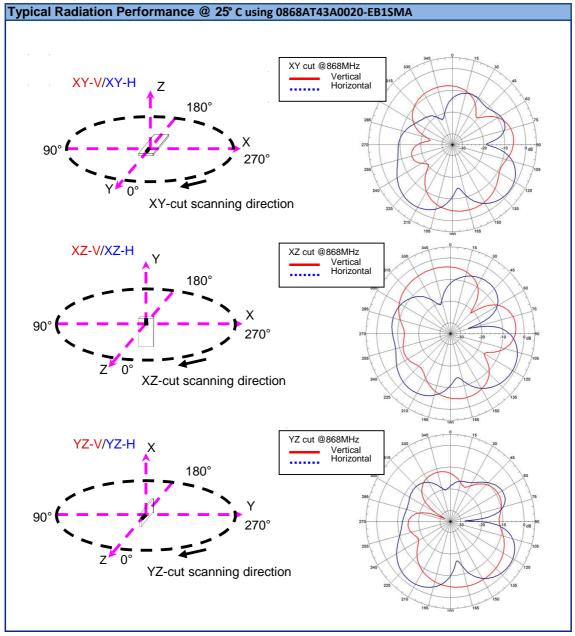
Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821 Ver 1.8 2016 Johanson Technology, Inc. All Rights Reserved

 868 MHz Antenna for small form factor applications AEC-Q200 Qualified
 P/N 0868AT43A0020E-AEC

 Detail Specification:
 6/12/2017
 Page 4 of 5



Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

 Ver 1.8
 2016 Johanson Technology, Inc. All Rights Reserved

 868 MHz Antenna for small form factor applications AEC-Q200 Qualified
 P/N 0868AT43A0020E-AEC

 Detail Specification:
 6/12/2017
 Page 5 of 5

More SMD Chip Antennas at:

www.johansontechnology.com/antennas

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/typical-soldering-profile

Antenna layout and tuning techniques (How to obtain the new antenna matching values) www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipc-antenna-services

RoHS Compliance

www.johansontechnology.com/rohs-compliance

MSL Info

www.johansontechnology.com/msl-rating

Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 1.8 2016 Johanson Technology, Inc. All Rights Reserved