

"High Frequency Ceramic Solutions"

915 MHz ISM Antenna for small form factor applications

P/N 0915AT43A0026

Detail Specification: 9/7/2016

Page 2 of 5

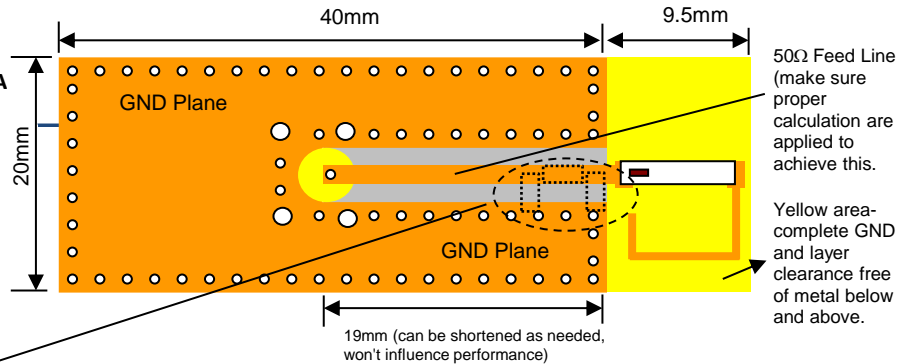
Recommended Application ISM

Mounting Considerations II

Johanson Test Board

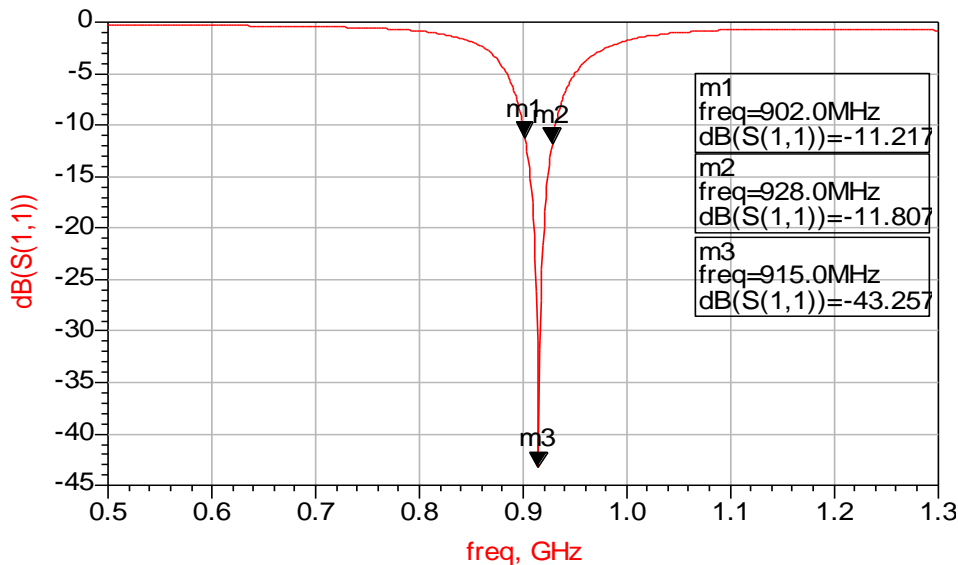
(orderable) p/n:

0915AT43A0026-EB1SMA



****Note 2:** It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different. Go to: www.johansontechnology.com/tuning and see how to obtain the new values. If you need further help, such as needing the layout file of the above, contact our RF Applications Eng. Team at: www.johansontechnology.com/ask-a-question

Return Loss (with matching)



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. 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 2.3

2016 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

915 MHz ISM Antenna for small form factor applications

P/N 0915AT43A0026

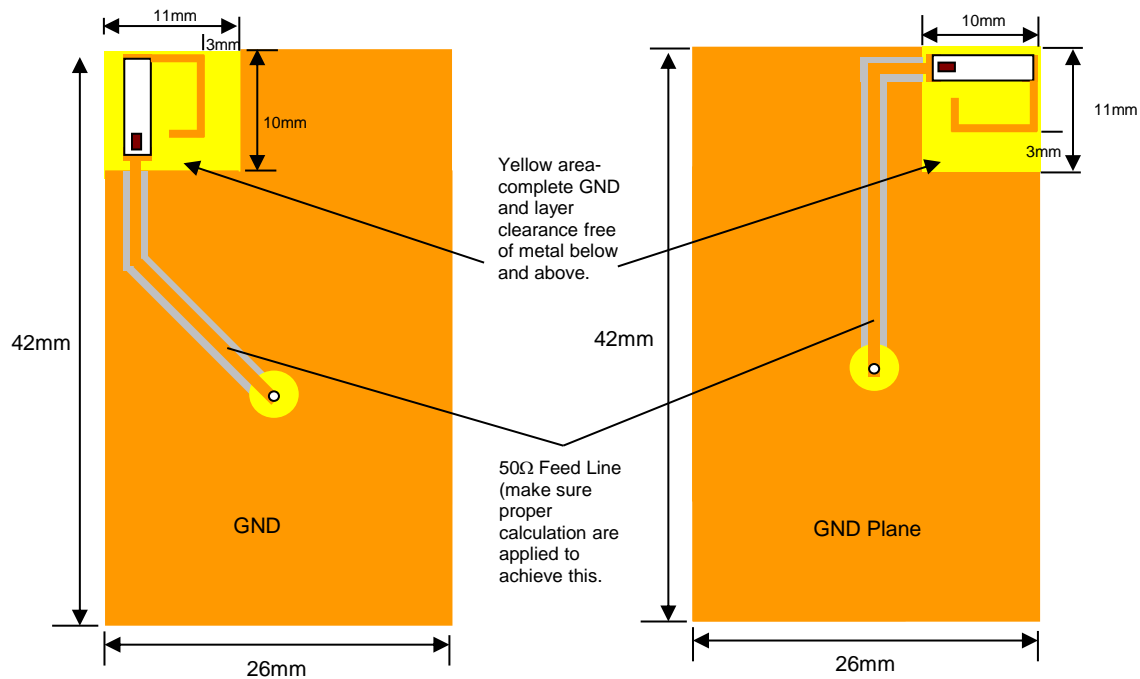
Detail Specification: 9/7/2016

Page 2 of 5

Recommended Application ISM

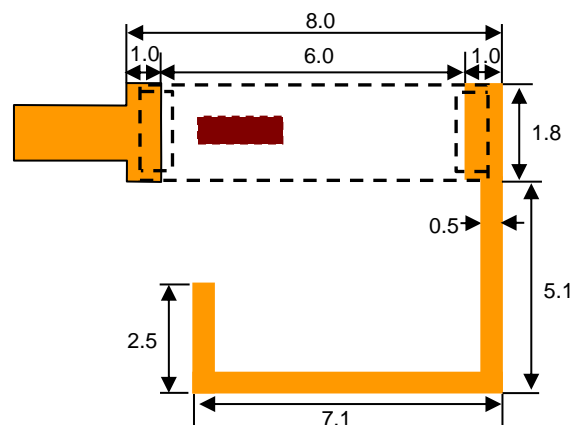
Mounting Considerations III

We have conducted internal studies to show that the following corner placements provide antenna efficiency results with minimal detrimental effects.



Note: It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different. Go to: www.johansontechnology.com/tuning and see how to obtain the new values. If you need further help, such as needing the layout file of the above, 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. Please confirm the specifications and delivery conditions when placing your order. 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 2.3

2016 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

915 MHz ISM Antenna for small form factor applications

P/N 0915AT43A0026

Detail Specification: 9/7/2016

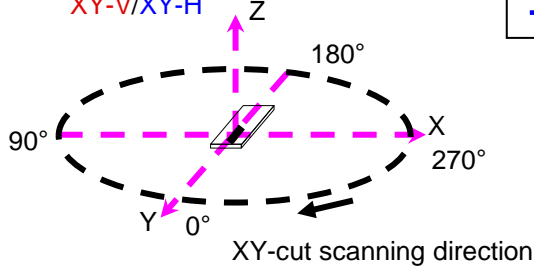
Page 4 of 5

Recommended Application ISM

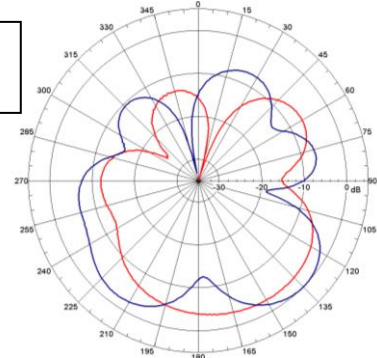
Typical Radiation Performance @ 25° C using 0915AT43A0026-EB1SMA

Typical Radiation Patterns

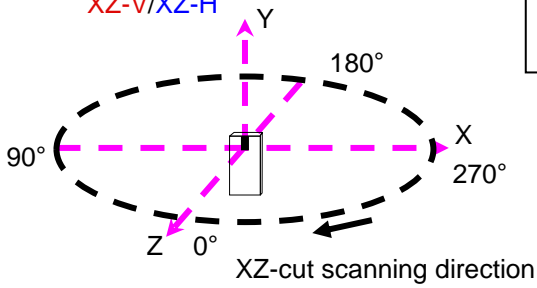
XY-V/XY-H



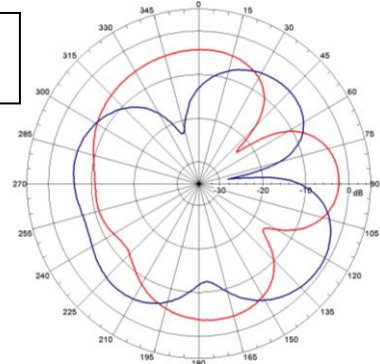
XY cut @915MHz
 — Vertical
 Horizontal



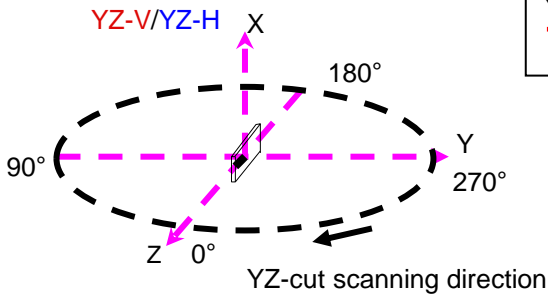
XZ-V/XZ-H



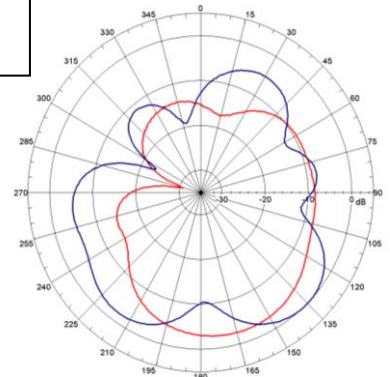
XZ cut @915MHz
 — Vertical
 Horizontal



YZ-V/YZ-H



YZ cut @915MHz
 — Vertical
 Horizontal



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. 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 2.3

2016 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

915 MHz ISM Antenna for small form factor applications

P/N 0915AT43A0026

Detail Specification: 9/7/2016

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. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions