

"High Frequency Ceramic Solutions"

920 MHz Antenna

P/N 0920AT50A080

Detail Specification: 11/26/12

Page 1 of 3

General Specifications

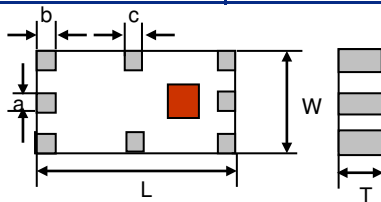
Part Number	0920AT50A080	Impedance	50 Ω
Frequency (MHz)	880 - 960 Mhz	Input Power	5W max.
Peak Gain (XZ-total)	-0.7 dBi typ.	Operating Temperature	-40 to +85°C
Average Gain (XZ-tota)	-2.6 dBi typ.	Reel Quantity	1,000
Return Loss	8.5 dB max.		

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 0920AT50A080S
		T & R	Suffix = E	eg. 0920AT50A080E
		100% Tin	Suffix = E or S	eg. 0920AT50A080(E or S)
Termination style		Tin / Lead	Please Consult Factory	

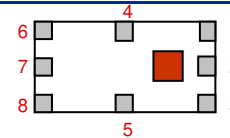
Mechanical Dimensions

	In	mm
L	0.433 ± 0.012	11.00 ± 0.30
W	0.201 ± 0.012	5.10 ± 0.30
T	0.059 ± 0.008	1.50 ± 0.20
a	0.039 ± 0.008	1.00 ± 0.20
b	0.020 ± 0.012	0.50 ± 0.30
c	0.020 ± 0.012	0.50 ± 0.30



Terminal Configuration

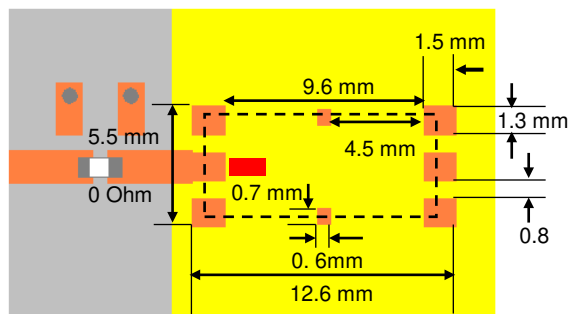
No.	Function
1	NC
2	Feeding Point
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC



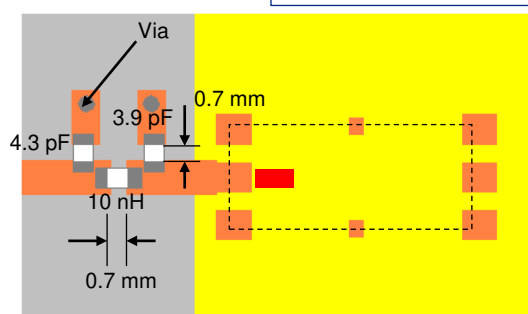
Mounting Considerations

Mount these devices with brown mark facing up. Units: mm Line width should be designed to provide 50 Ω impedance matching characteristics.

JTI P/N for Matching Circuit:
Cap (3.9pF): 500R07S3R9BV4T
Inductor (10nH): L-07C10NJV6T



a) Without Matching Circuits



b) With Matching Circuits



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

Ver 1.0

2012 Johanson Technology, Inc. All Rights Reserved

www.johansontechnology.com

"High Frequency Ceramic Solutions"

920 MHz Antenna

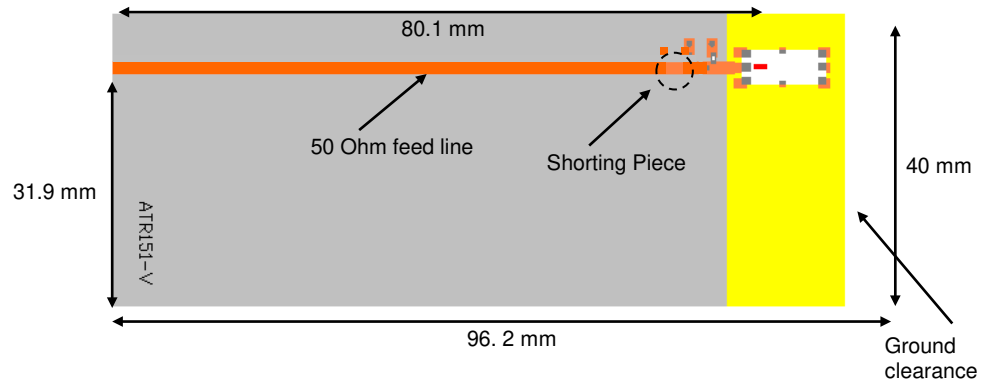
P/N 0920AT50A080

Detail Specification: 11/26/12

Page 2 of 3

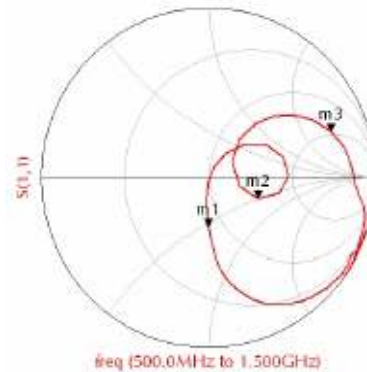
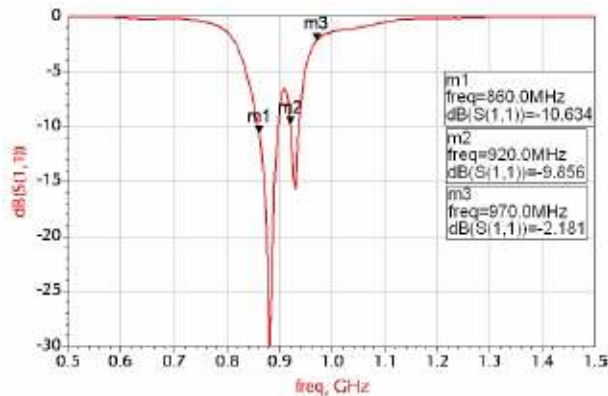
Typical Electrical Characteristics (T=25°C)

Test Board



Return Loss

a) Without Matching Circuits



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.

"High Frequency Ceramic Solutions"

920 MHz Antenna

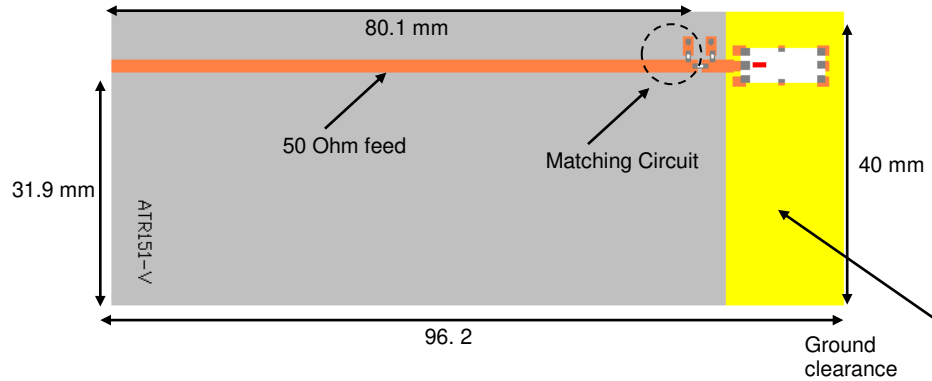
P/N 0920AT50A080

Detail Specification: 11/26/12

Page 3 of 3

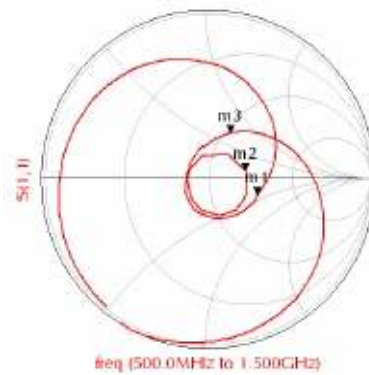
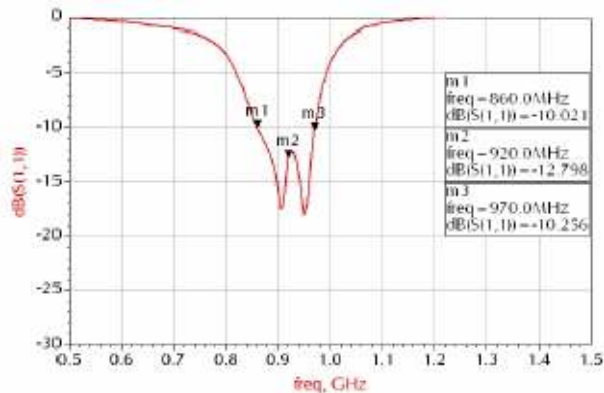
Typical Electrical Characteristics (T=25°C)

Test Board



Return Loss

b) With Matching Circuits



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.

"High Frequency Ceramic Solutions"

920 MHz Antenna

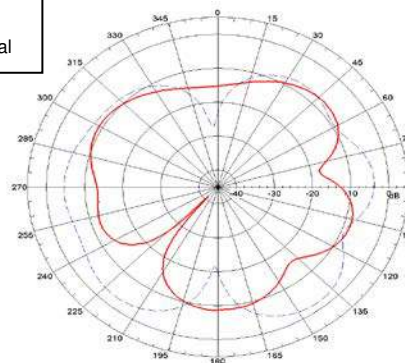
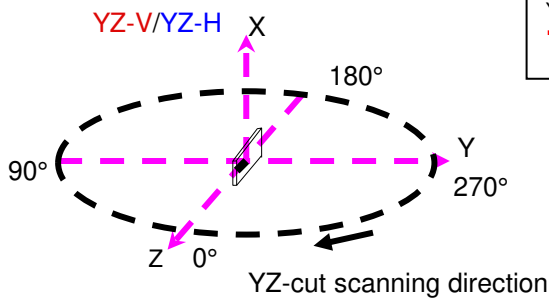
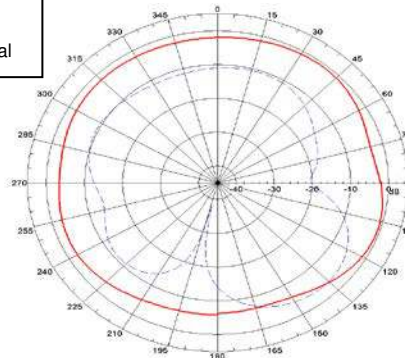
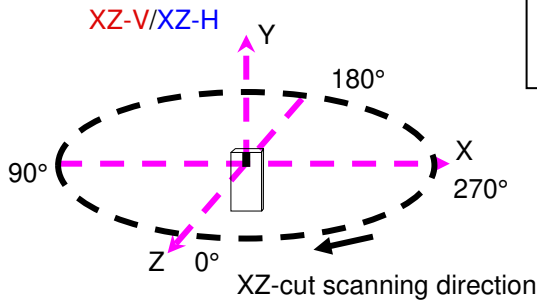
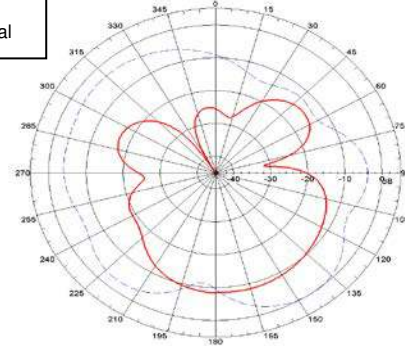
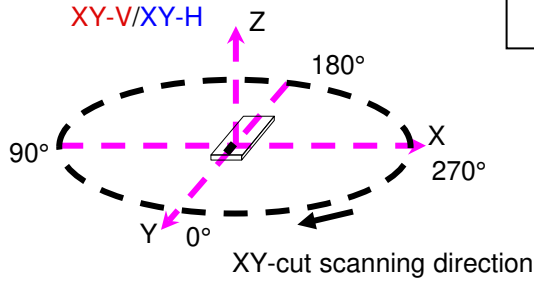
P/N 0920AT50A080

Detail Specification: 11/26/12

Page 3 of 3

Typical Electrical Characteristics (T=25°C)

Typical Radiation Patterns



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.