

Rhein Tech Laboratories, Inc.
360 Herndon Parkway
Suite 1400
Herndon, VA 20170
<http://www.rheintech.com>

Client: Strategic Services Group, Inc.
Model #: REN91812
Standards: FCC 15.247/RSS-210
ID's: UJX-SSG-REN91812/6715A-SSG91812
Report #: 2006070

Appendix I: Antenna Specifications

Please refer to the following pages.

"High Frequency Ceramic Solutions"

920 MHz Antenna

Detail Specification: 09/15/05

P/N 0920AT50A080

Page 1 of 4

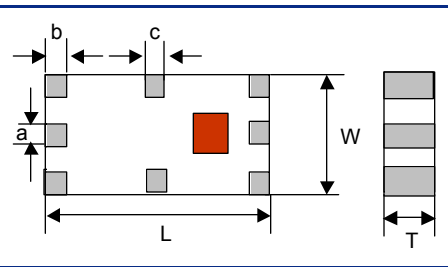
General Specifications

Part Number	0920AT50A080
Frequency Range	880 - 960 Mhz
Peak Gain	-0.7 dBi typ. (XZ-V)
Average Gain	-2.6 dBi typ. (XZ-V)
Return Loss	8.5 dB min.

Input Power	5W max.
Impedance	50 Ω
Operating Temperature	-40 to +85°C
Reel Quantity	1,000

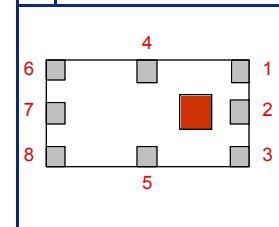
Mechanical Dimensions

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



Terminal Configuration

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

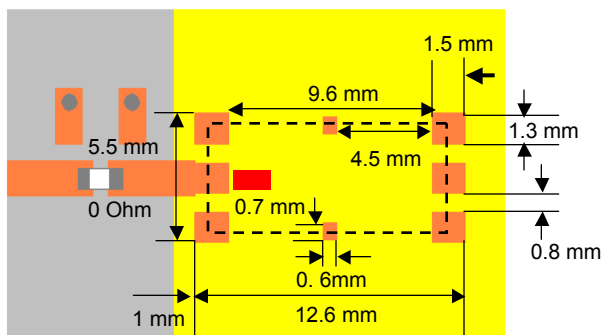


Mounting Considerations

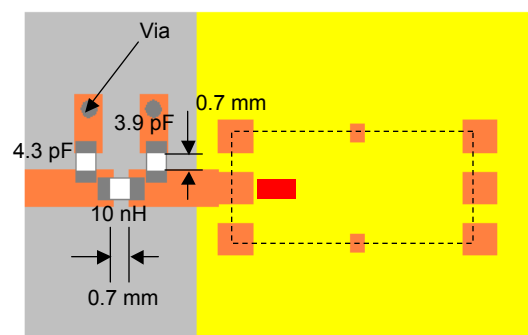
Mount these devices with brown mark facing up. Units: mm

Line width should be designed to provide 50 Ω impedance matching characteristics.

a) Without Matching Circuits



b) With Matching Circuits



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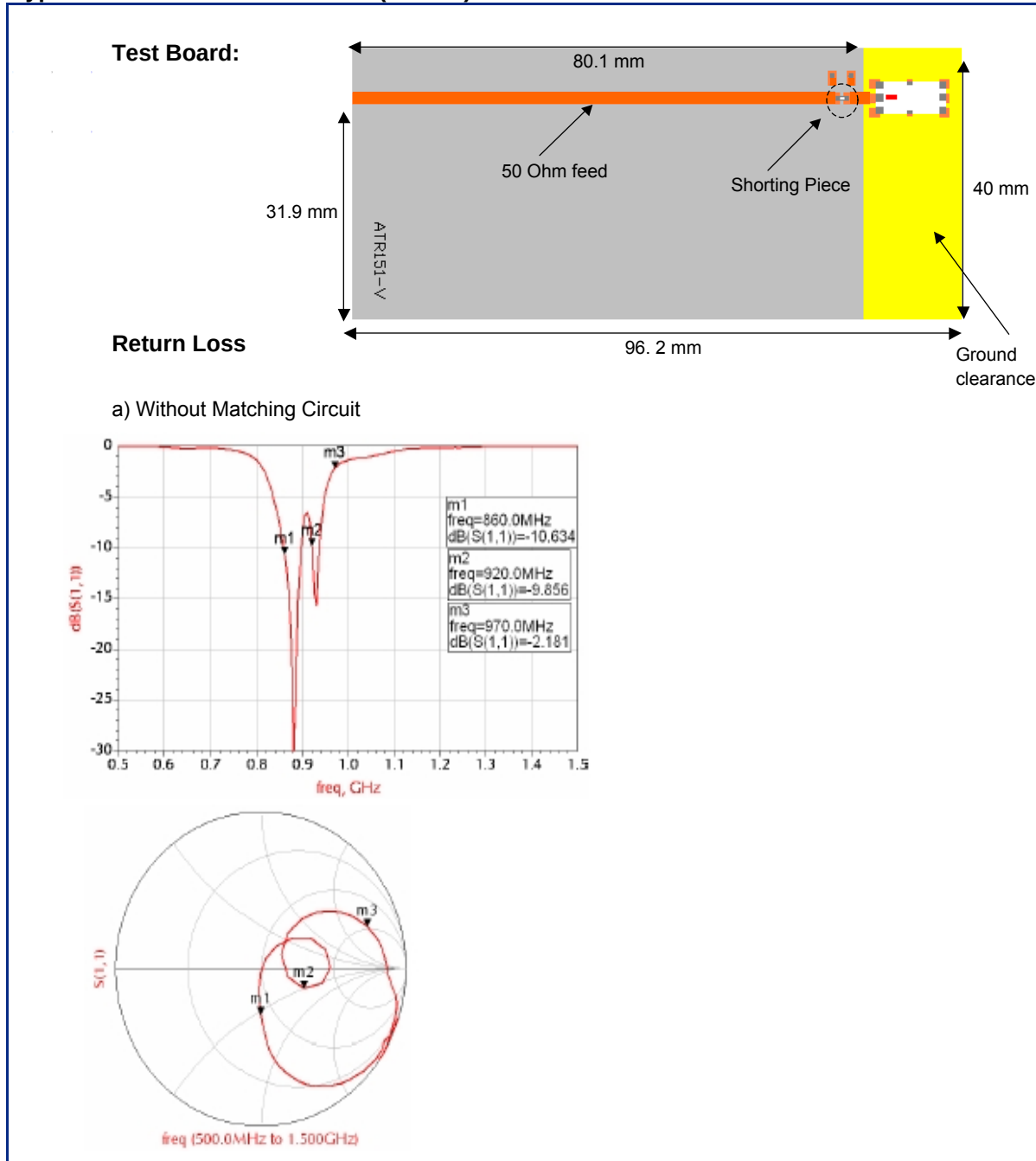
920 MHz Antenna

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Typical Electrical Characteristics (T=25°C)



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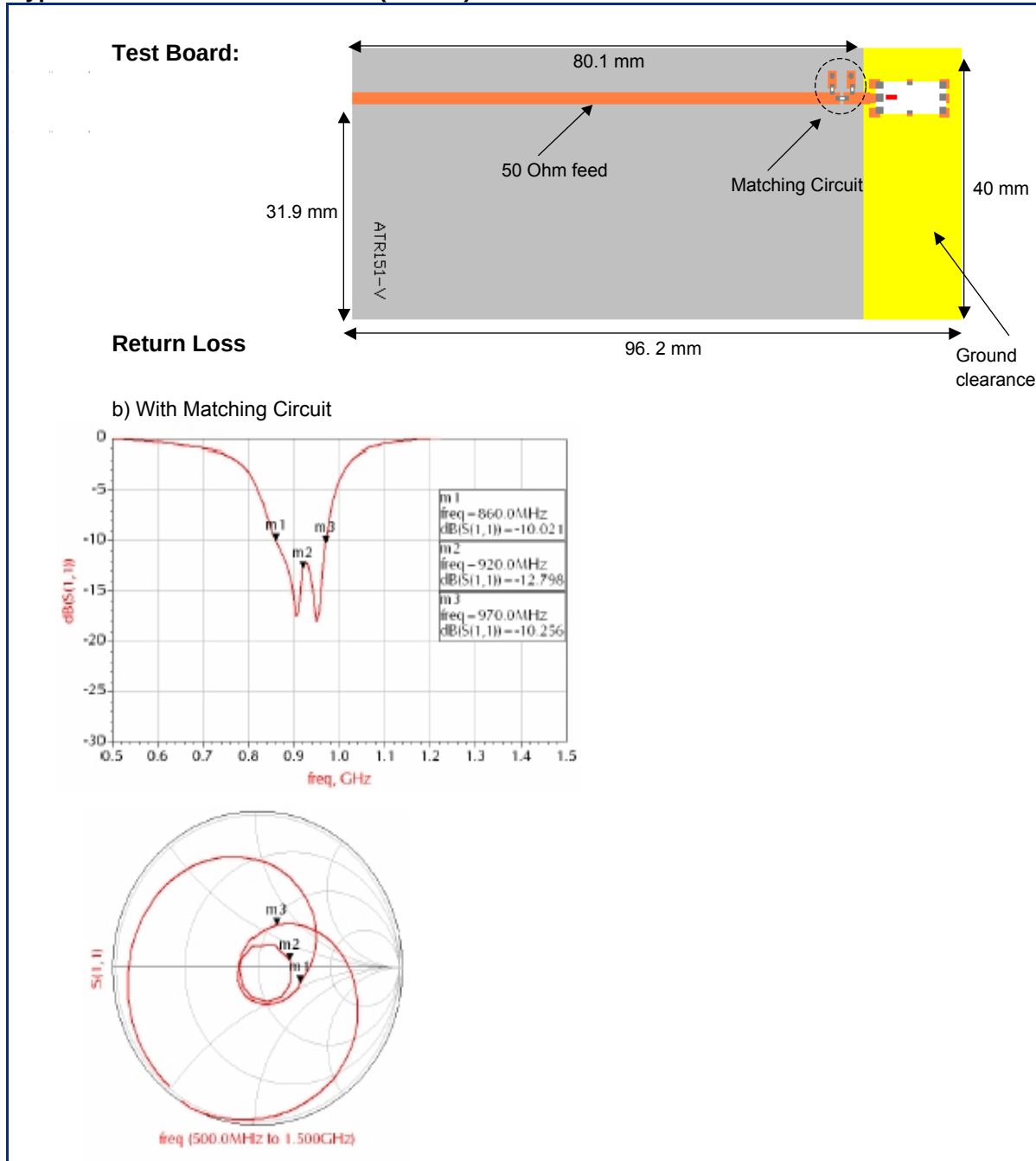
920 MHz Antenna

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Typical Electrical Characteristics (T=25°C)



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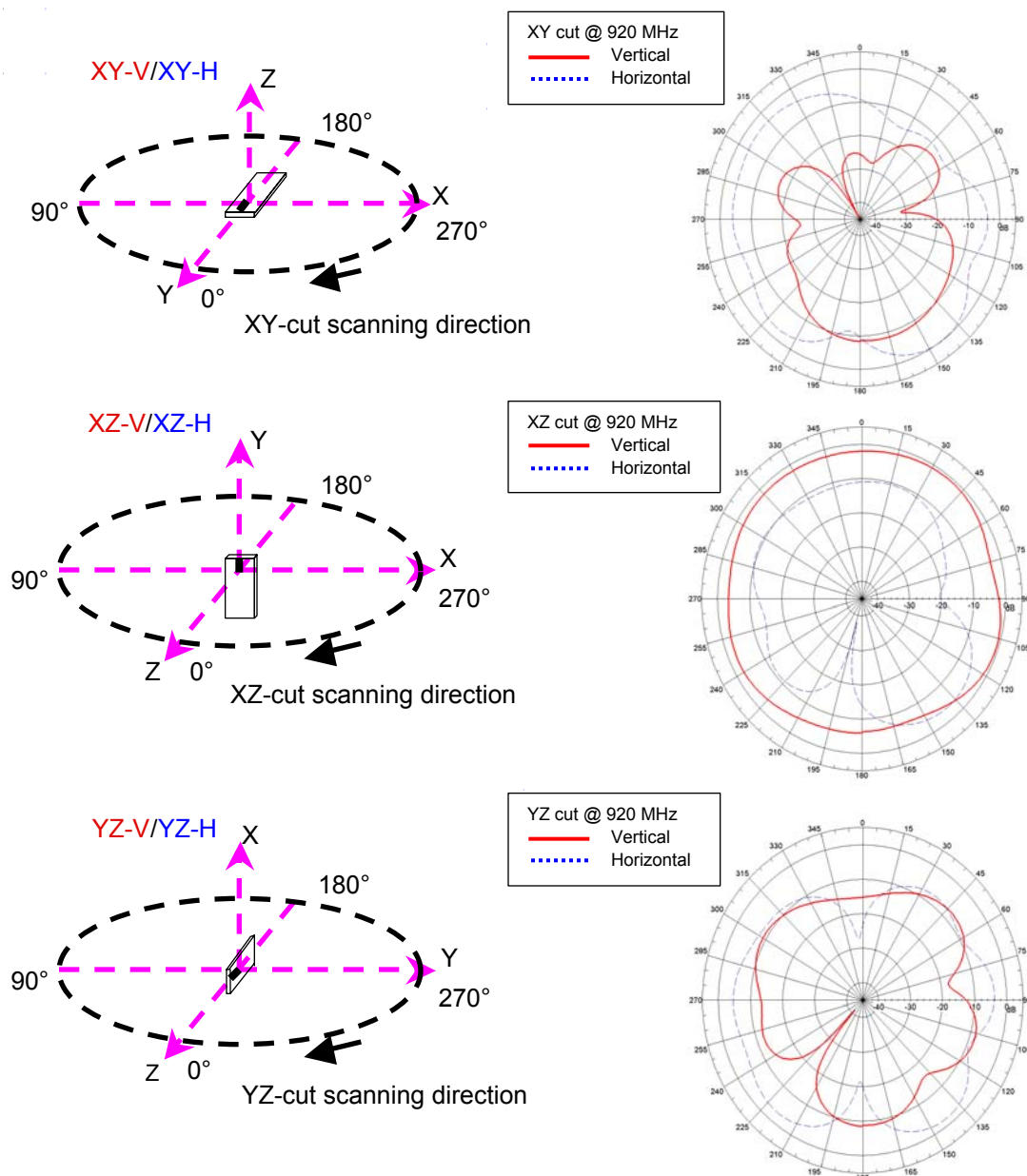
920 MHz Antenna

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Typical Radiation Patterns



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