

"High Frequency Ceramic Solutions"

5.4 GHz Wideband Antenna

P/N 5400AT18A1000

Detail Specification: 01/27/2011

Page 1 of 3

General Specifications

Part Number	5400AT18A1000
Frequency Range	4900 - 5900 Mhz
Peak Gain	2.0 dBi typ. (XZ-V)
Average Gain	-2.5 dBi typ. (XZ-V)
Return Loss	8.5 dB min.
Input Power	500mW max.
Impedance	50 Ω

Operating Temperature	-40 to +85°C
Reel Quantity	3,000
Storage Temperature	+5 to +35°C, Humidity:45-75%RH, 18 mos. Max

No.	Function	Terminal Configuration
1	Feeding Point	
2	NC	

Mechanical Dimensions

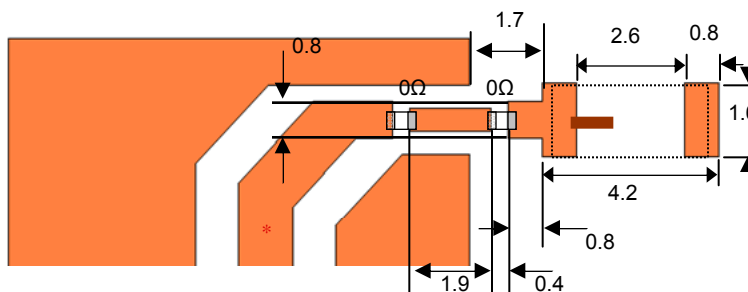
	In	mm
L	0.126 ± 0.008	3.20 ± 0.20
W	0.063 ± 0.008	1.60 ± 0.20
T	0.051 +.004/-0.008	1.30 +0.1/-0.2
a	0.020 ± 0.012	0.50 ± 0.30

Mounting Considerations

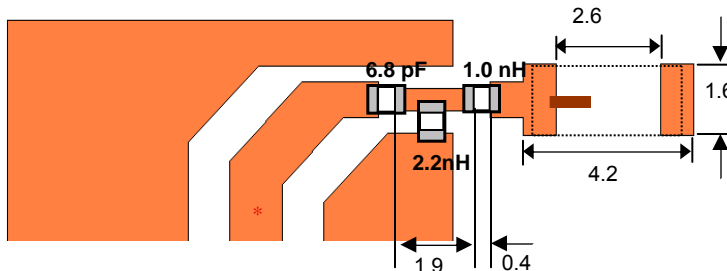
Mount these devices with brown mark facing up. Units: mm

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

a) Without Matching Circuits



b) With Matching Circuits



JTI P/N for Matching Circuit:
 Cap (6.8pF): 500R07S6R8BV4T
 Inductor (1.0nH): L-07C1N0SV6T
 Inductor (2.2nH): L-07C2N2SV6T

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

2011 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

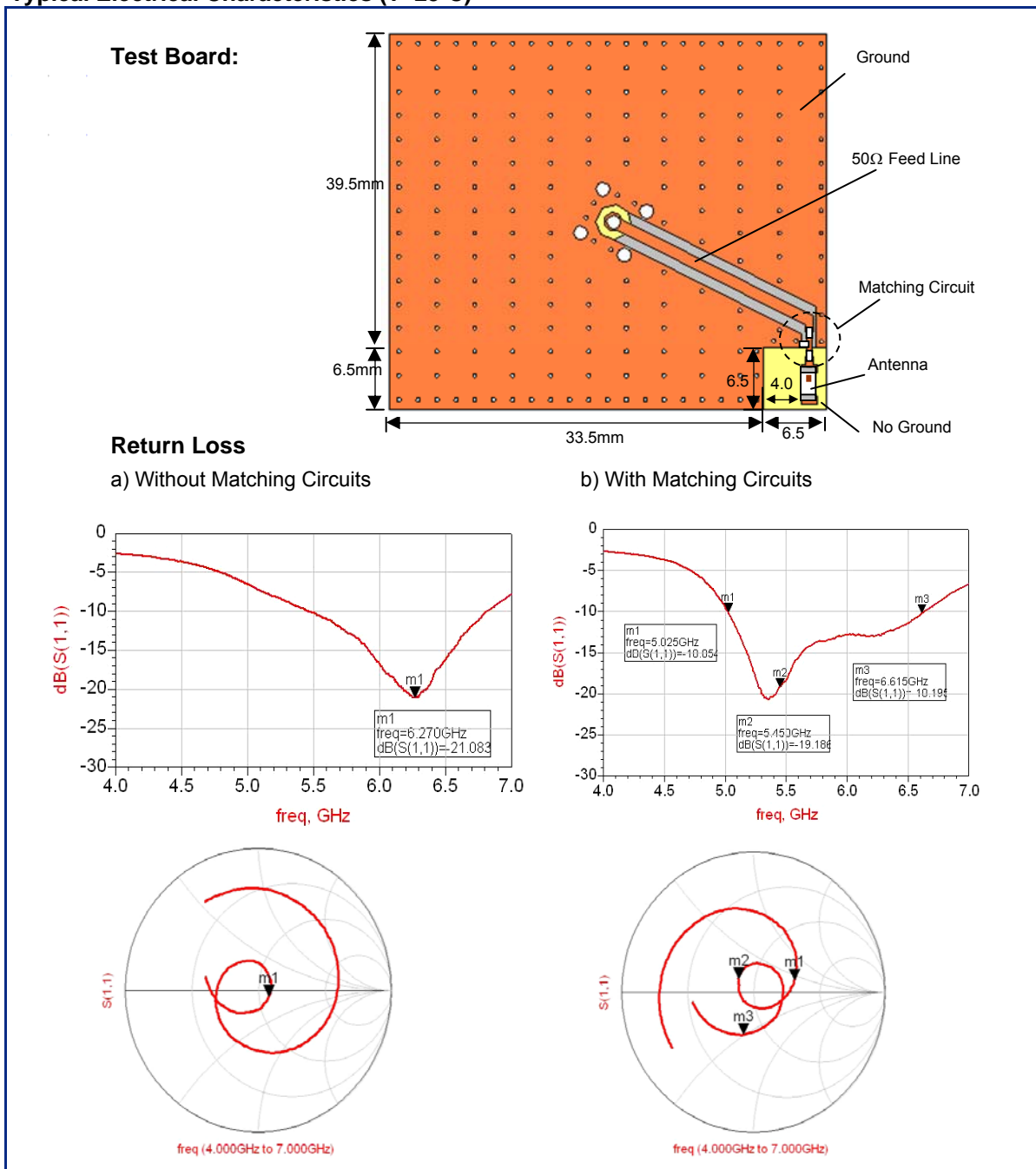
5.4 GHz Wideband Antenna

P/N 5400AT18A1000

Detail Specification: 01/27/2011

Page 2 of 3

Typical Electrical Characteristics (T=25°C)



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.

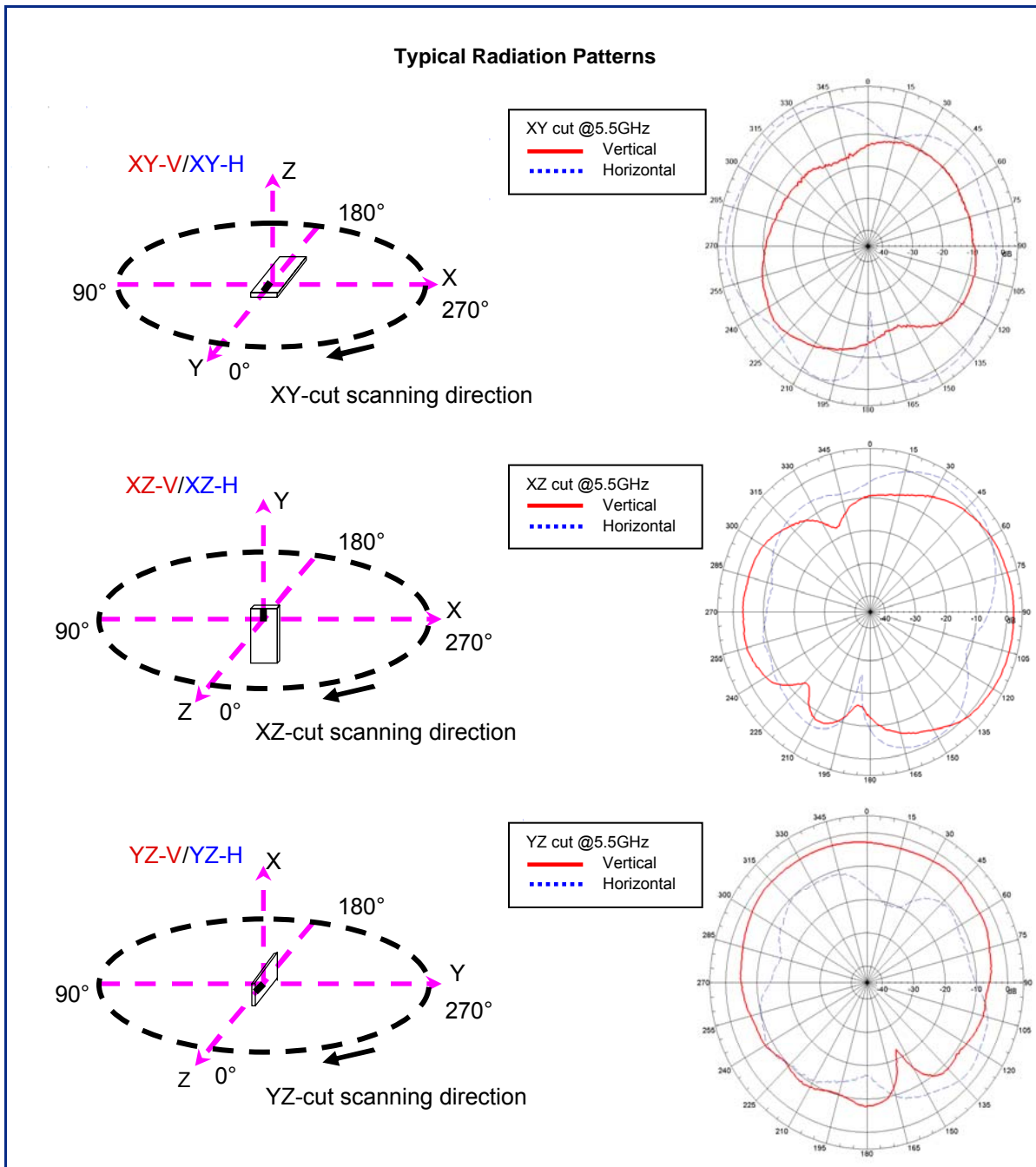
"High Frequency Ceramic Solutions"

5.4 GHz Wideband Antenna

P/N 5400AT18A1000

Detail Specification: 01/27/2011

Page 3 of 3



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



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

www.johansontechnology.com

2011 Johanson Technology, Inc. All Rights Reserved

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Johanson:](#)

[5400AT18A1000E](#)