

"High Frequency Ceramic Solutions"

5.25 GHz Antenna

P/N 5250AT43A200

Detail Specification: 09/02/04

Page 1 of 5

General Specifications

Part Number	5250AT43A200
Frequency Range	5150 - 5350 Mhz
Peak Gain	3.6 dBi typ. (XZ-V)
Average Gain	-2.3 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

Input Power	3W max.
Impedance	50 Ω
Operating Temperature	-40 to +85°C
Reel Quantity	1,000

No.	Function	Terminal Configuration
1	Feeding Point	
2	NC	

Mechanical Dimensions

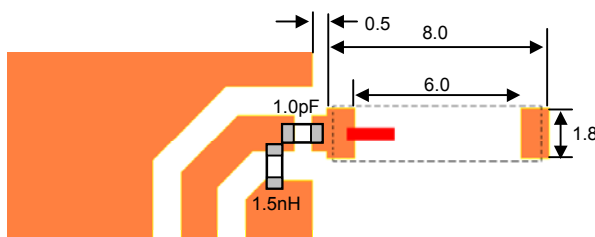
	In	mm	
L	0.276 \pm 0.008	7.00 \pm 0.20	
W	0.079 \pm 0.008	2.00 \pm 0.20	
T	0.047 +.004/-0.008	1.20 +0.1/-0.2	
a	0.020 \pm 0.012	0.50 \pm 0.30	

Mounting Considerations (Close Up)

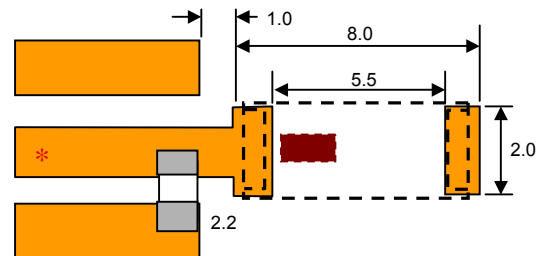
Mount these devices with brown mark facing up. Units: mm

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

With Matching Circuit (Horizontal Mounting Situation)



With Matching Circuit (Vertical Mounting Situation)



(Matching components, if used, will vary in value depending on PCB layout)

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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

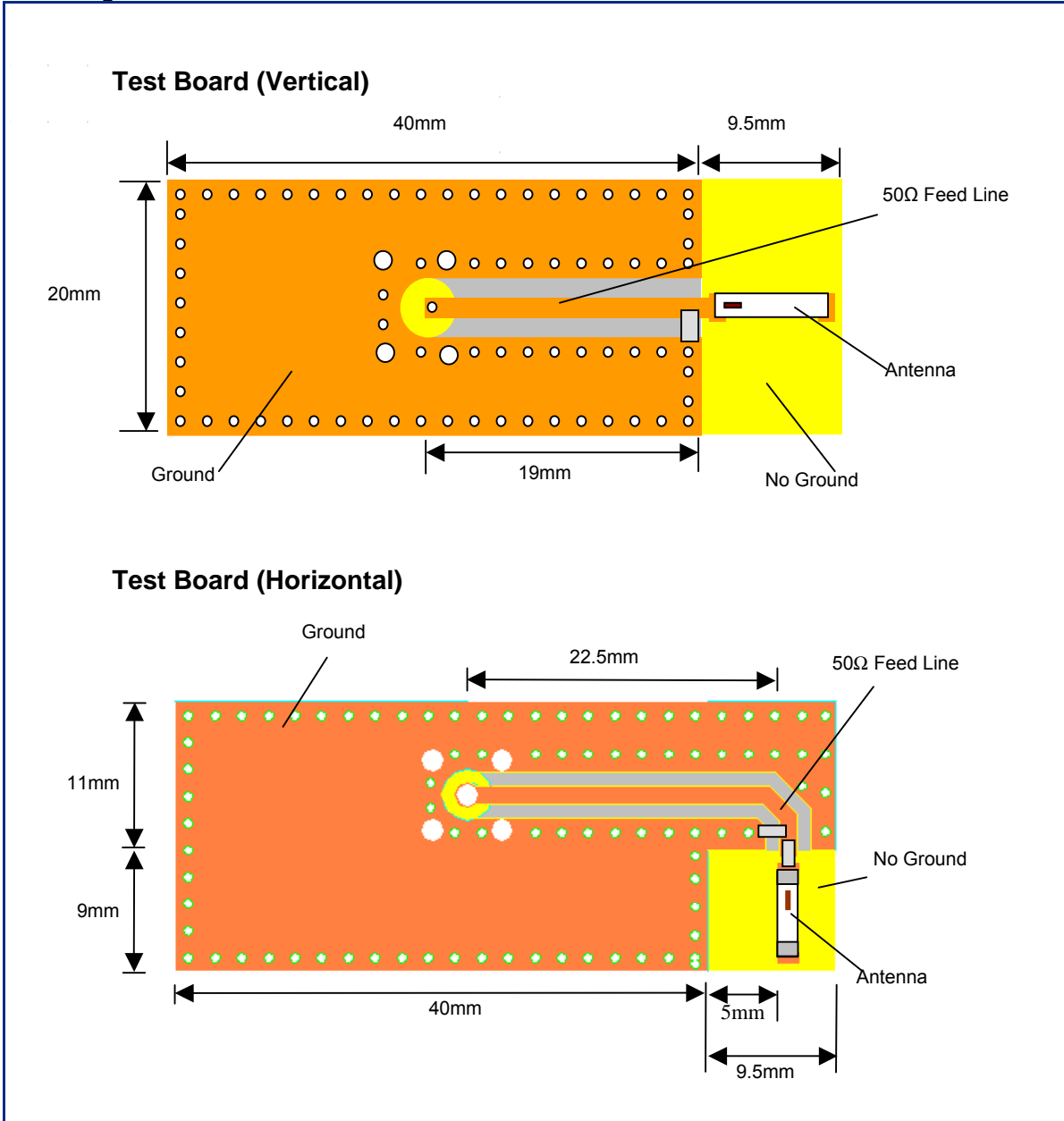
5.25 GHz Antenna

Detail Specification: 09/02/04

P/N 5250AT43A200

Page 2 of 5

Mounting Considerations



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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

5.25 GHz Antenna

Detail Specification: 09/02/04

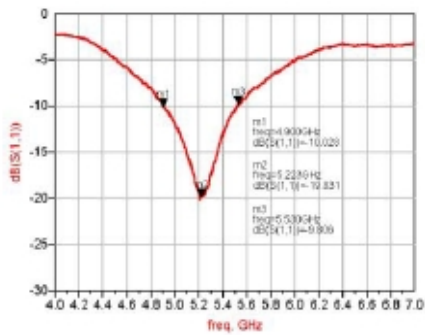
P/N 5250AT43A200

Page 3 of 5

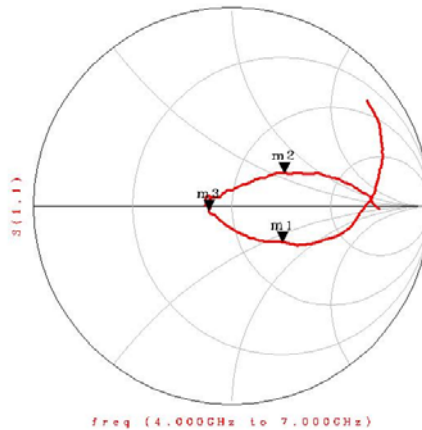
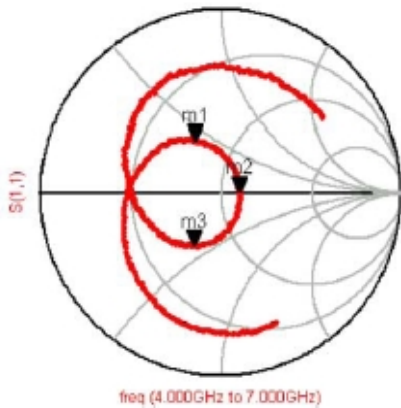
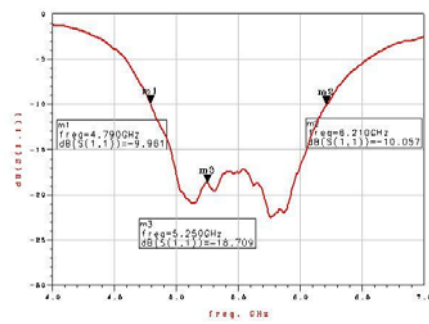
Typical Electrical Characteristics (T=25°C)

Return Loss

Vertical Test Board
(with matching components)



Horizontal Test Board
(with matching components)



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"

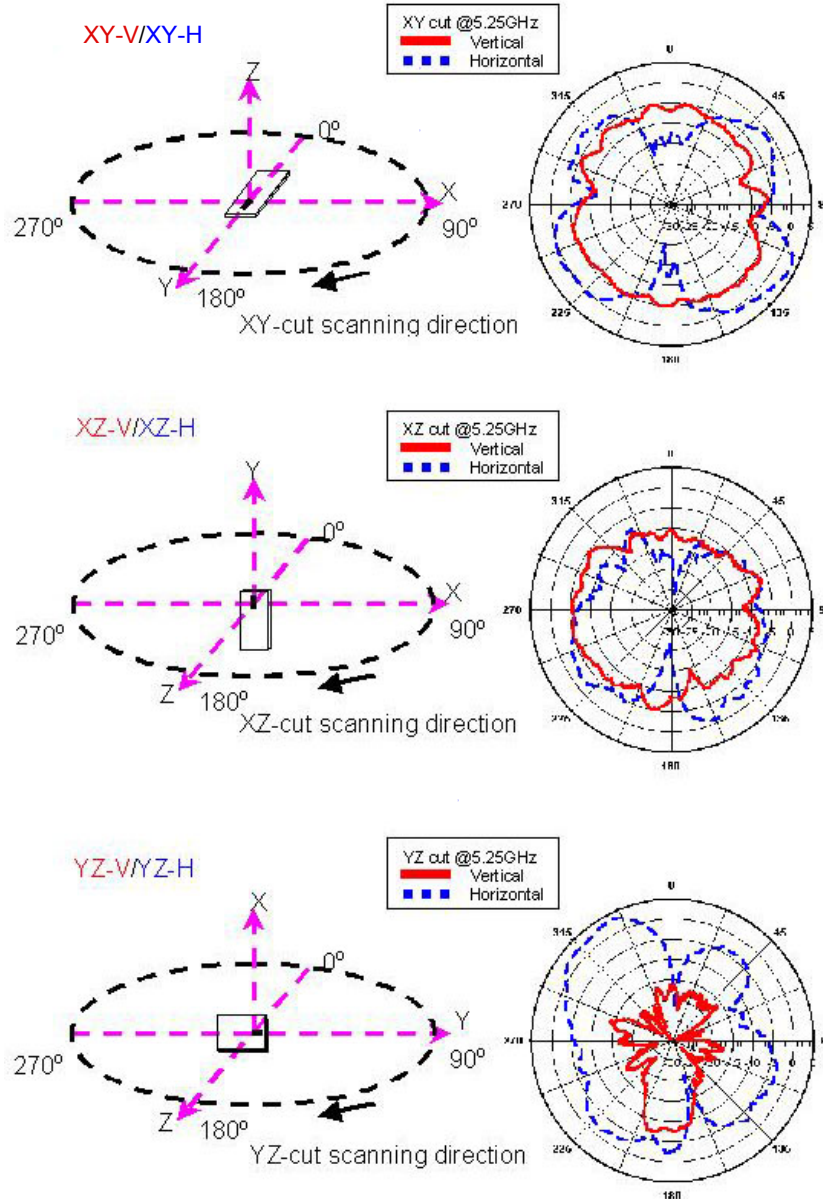
5.25 GHz Antenna

Detail Specification: 09/02/04

P/N 5250AT43A200

Page 4 of 5

Typical Radiation Patterns (Vertical Test Board)



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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

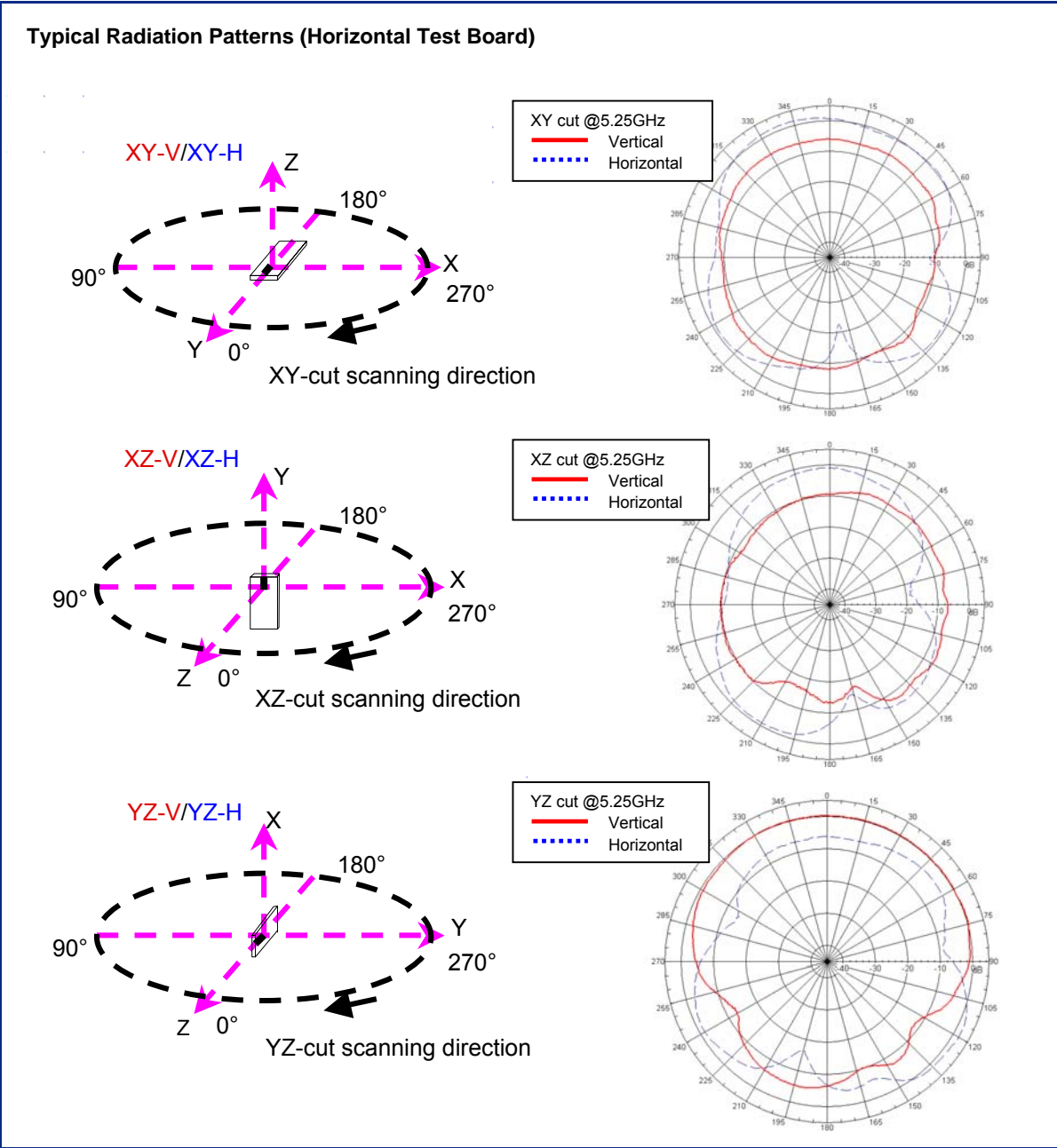
"High Frequency Ceramic Solutions"

5.25 GHz Antenna

Detail Specification: 09/02/04

P/N 5250AT43A200

Page 5 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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved