

High Frequency Ceramic Solutions

Ultra Wide Band (UWB) Chip Antenna 3.1 -10.3 GHz

P/N 3100AT51A7200

Detail Specification: 10/05/06

Page 1 of 4

General Specifications

Part Number	3100AT51A7200
Freq. Range (MHz)	3100 - 10300
Peak Gain (XZ-V)	1.5 dBi typ.
Average Gain (XZ-V)	-3.5 dBi typ.
Return Loss	9.5 dB min.

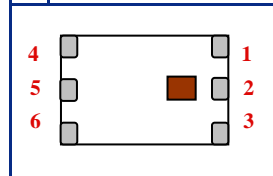
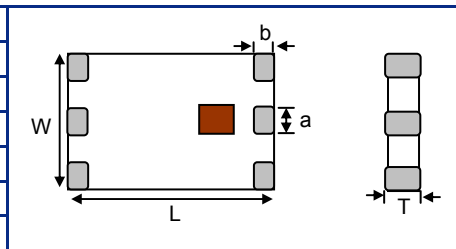
Input Power	3W max.
Impedance	50 Ω
Operating Temp.	-40 to +85°C
Reel Quantity	1,000

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 3100AT51A7200S
		T & R	Suffix = E	Eg. 3100AT51A7200E
Termination Style		100% Tin	Suffix = None	Eg. 3100AT51A7200(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 3100AT51A7200(E or S)/Pb

Terminal Configuration	
No.	Function
1	GND
2	Feeding Point
3	GND
4	NC
5	NC
6	NC

Mechanical Dimensions

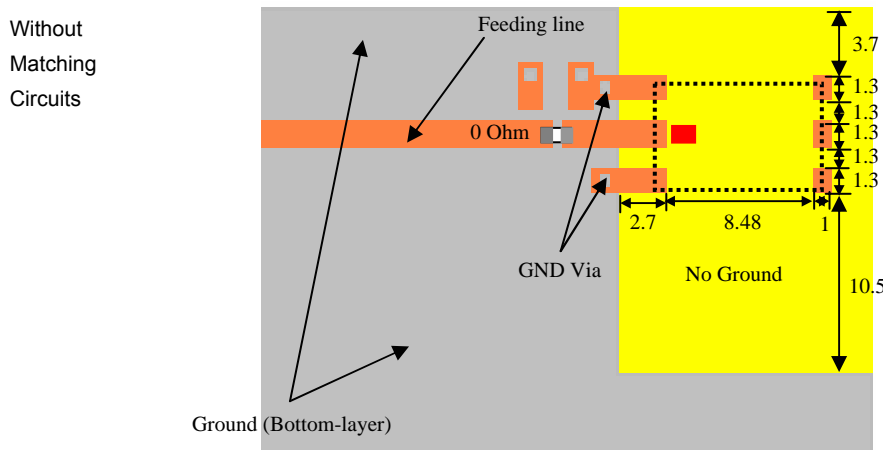
	In	mm
L	0.394 ± 0.012	10.00 ± 0.30
W	0.236 ± 0.012	6.00 ± 0.30
T	0.047 ± 0.008	1.20 ± 0.20
a	0.039 ± 0.012	1.00 ± 0.30
b	0.020 ± 0.012	0.50 ± 0.30



Mounting Considerations

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

* Line width should be designed to provide 50 Ω impedance matching characteristics, depending on PCB material and thickness.



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

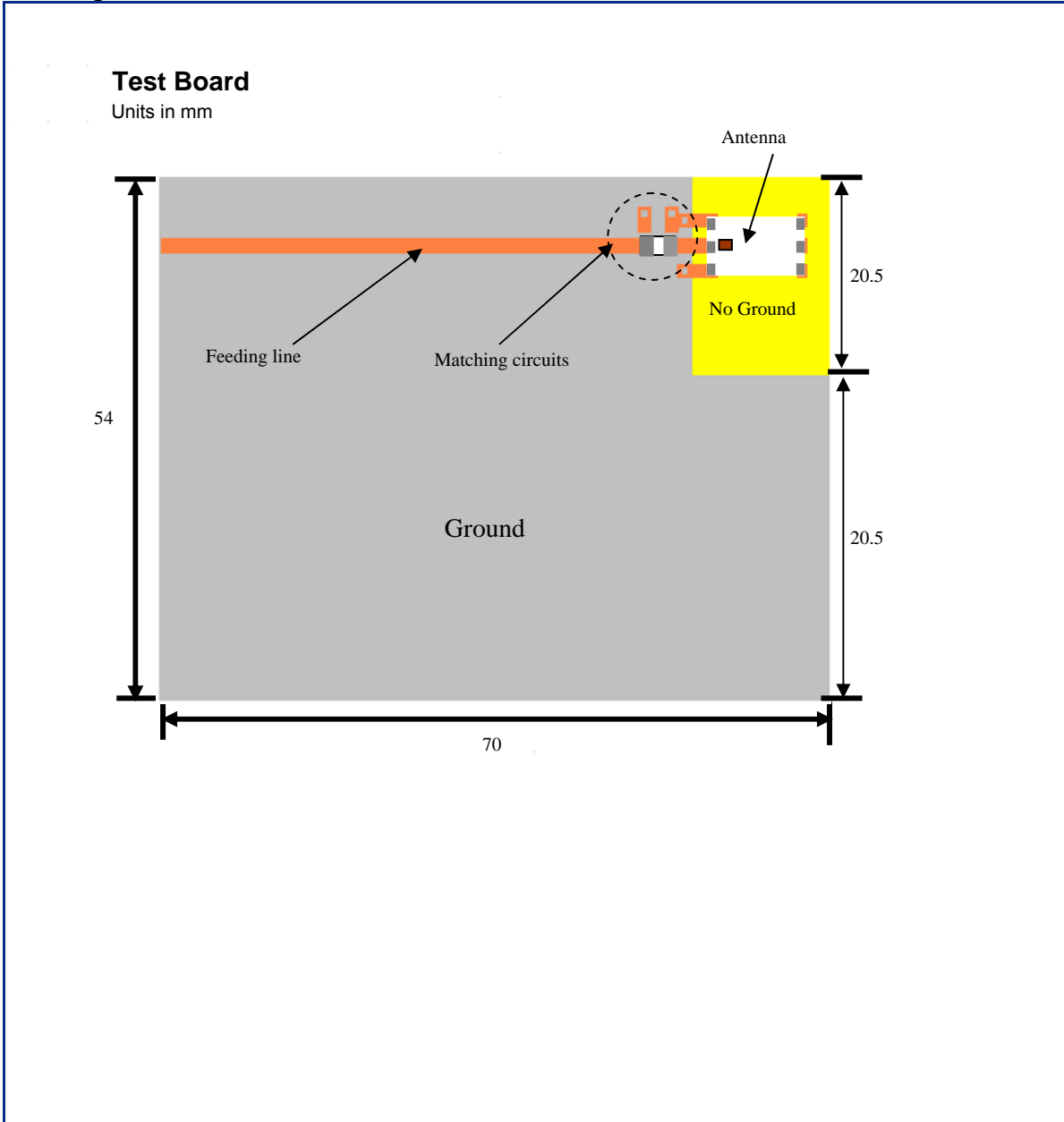
Ultra Wide Band (UWB) Chip Antenna 3.1 -10.3 GHz

P/N 3100AT51A7200

Detail Specification: 10/05/06

Page 2 of 4

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

WiMax (Tri-Band) Antenna

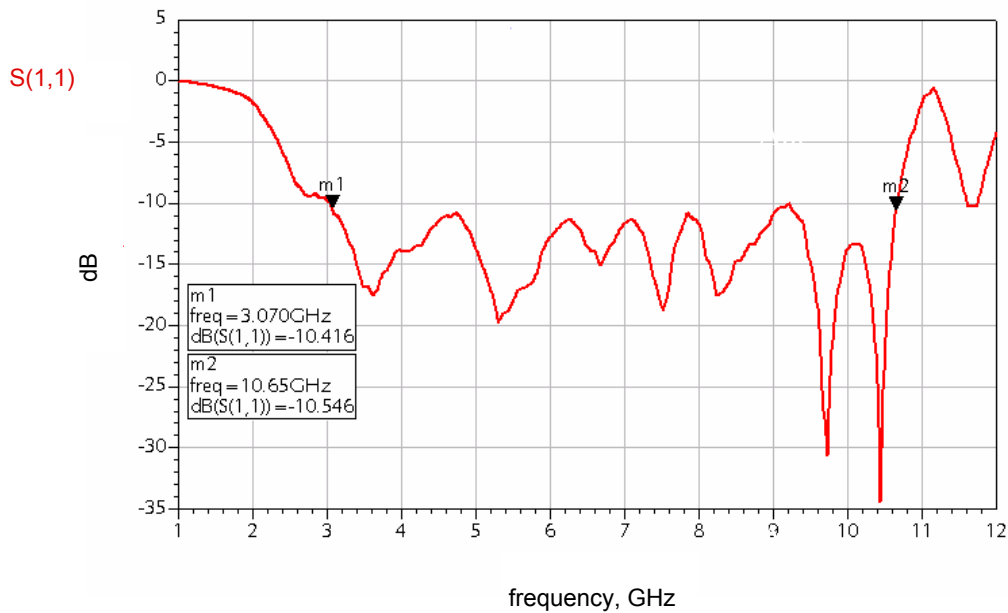
P/N 3100AT51A7200

Detail Specification: 10/05/06

Page 3 of 4

Mounting Considerations

Return Loss & Isolation (With Matching Circuits)



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

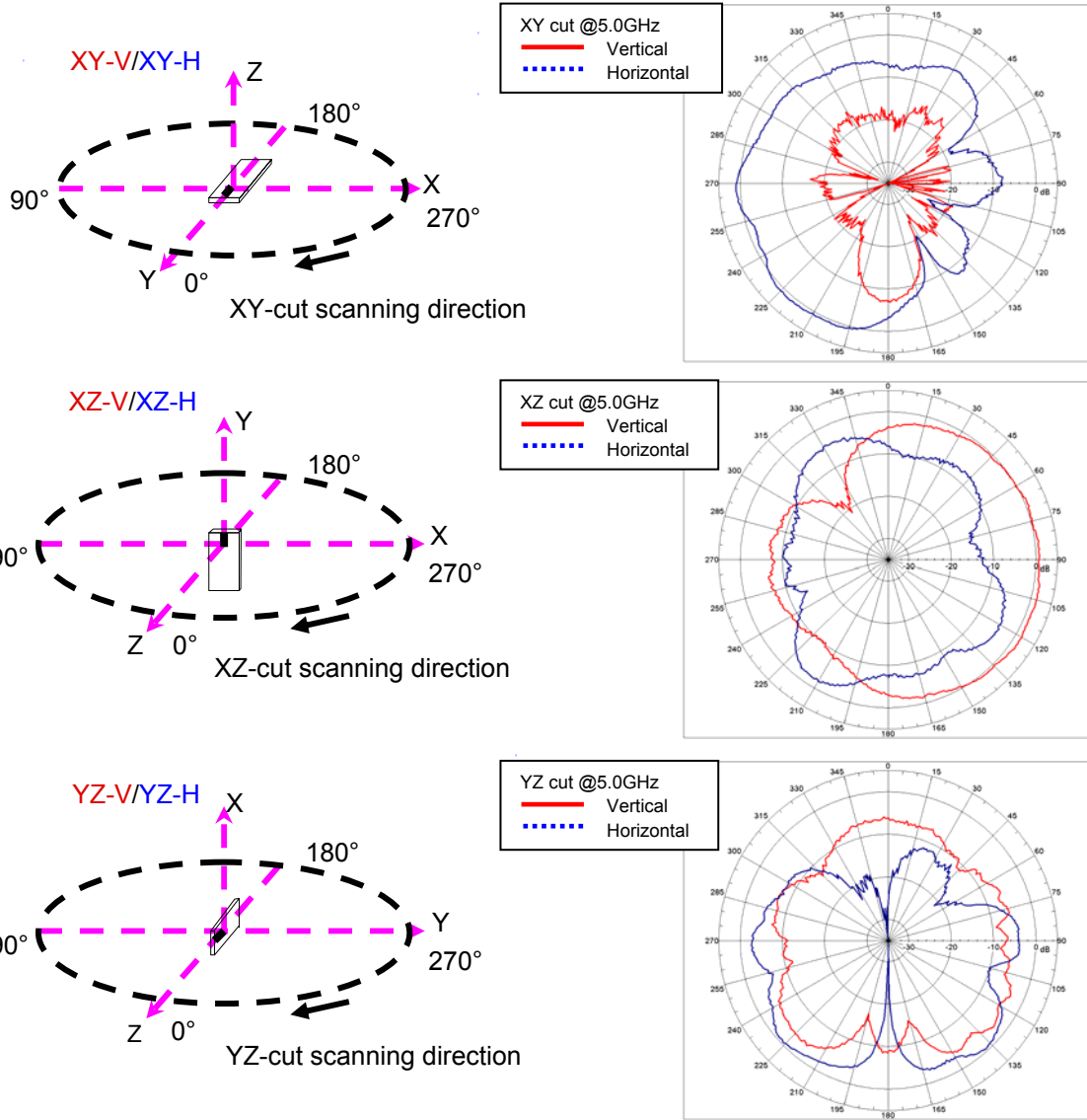
Ultra Wide Band (UWB) Chip Antenna 3.1 -10.3 GHz

P/N 3100AT51A7200

Detail Specification: 10/05/06

Page 4 of 4

Ant1 Radiation Patterns



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