

High Frequency Ceramic Solutions

(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 1 of 9

General Specifications

Part Number	2500AT52M3555		
Freq. Range (GHz)	2.3 - 2.69	3.3 - 3.9	5.15 - 5.875
Peak Gain (XZ-V)	2.0 dBi typ.	2.0 dBi typ.	2.0 dBi typ.
Average Gain (XZ-V)	-2.0 dBi typ.	-4.0 dBi typ.	-3.0 dBi typ.
Return Loss	8.5 dB min.	9.5 dB min.	9.5 dB min.

Input Power	5W max.
Impedance	50 Ω
Operating Temp.	-40 to +85°C
Reel Quantity	300

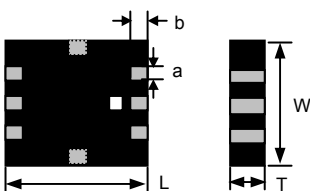
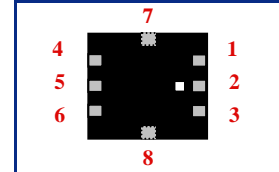
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2500AT52M3555S
		T & R	Suffix = E	Eg. 2500AT52M3555E
Termination Style		100% Tin	Suffix = None	Eg. 2500AT52M3555(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 2500AT52M3555(E or S)/Pb

Terminal Configuration

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

Mechanical Dimensions

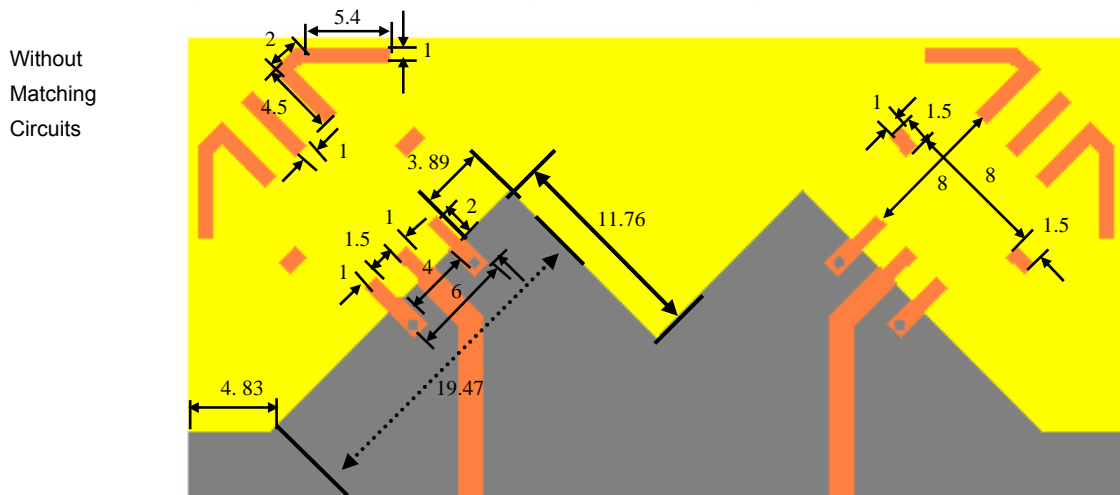
	In	mm
L	0.394 ± 0.012	10.00 ± 0.30
W	0.394 ± 0.012	10.00 ± 0.30
T	0.037 ± 0.010	0.95 ± 0.25
a	0.039 ± 0.012	1.00 ± 0.30
b	0.039 ± 0.012	1.00 ± 0.30

Mounting Considerations

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

* Line width should be designed to provide 50Ω 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

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

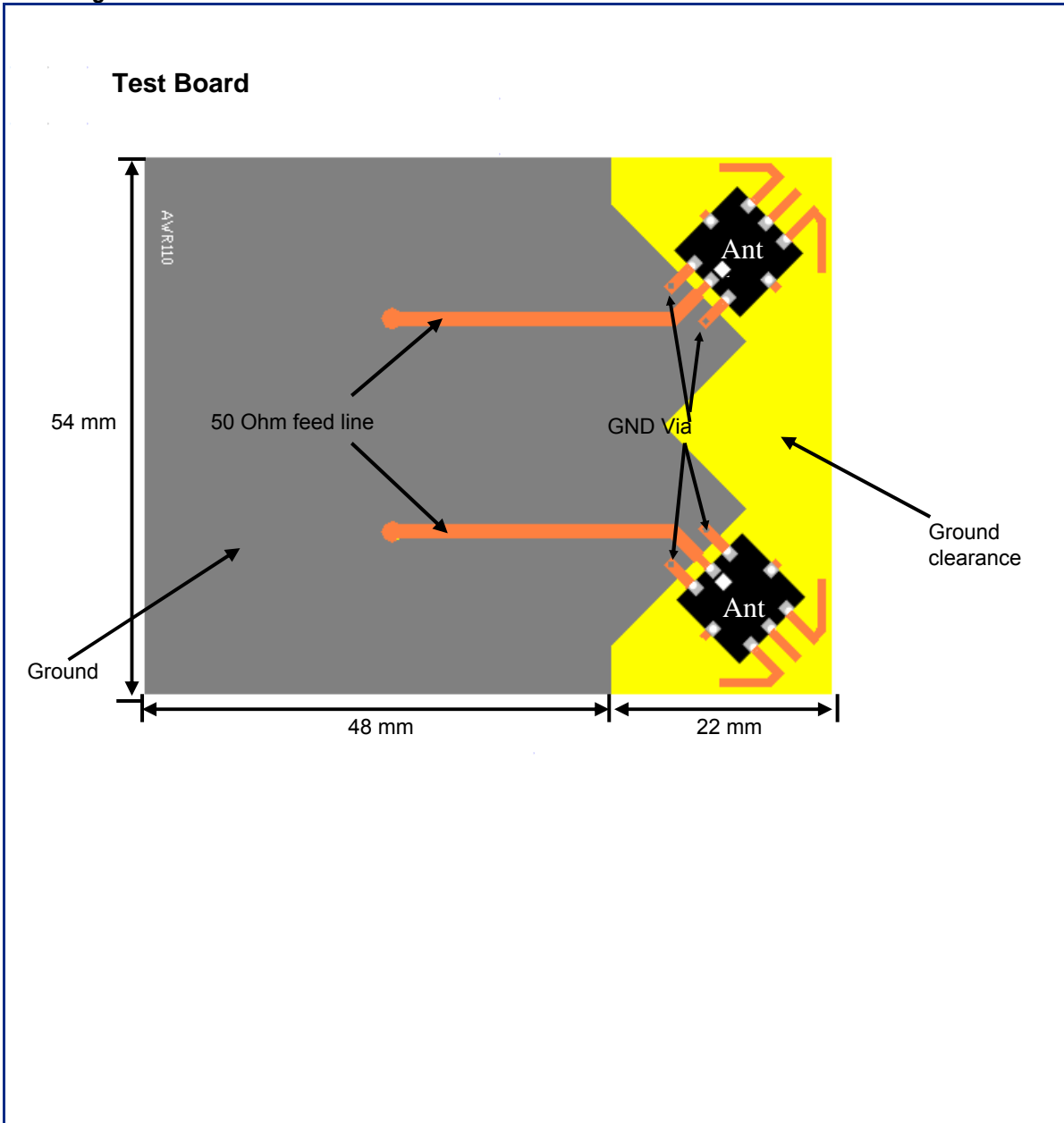
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 2 of 9

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

(Tri-Band) WiMax Antenna

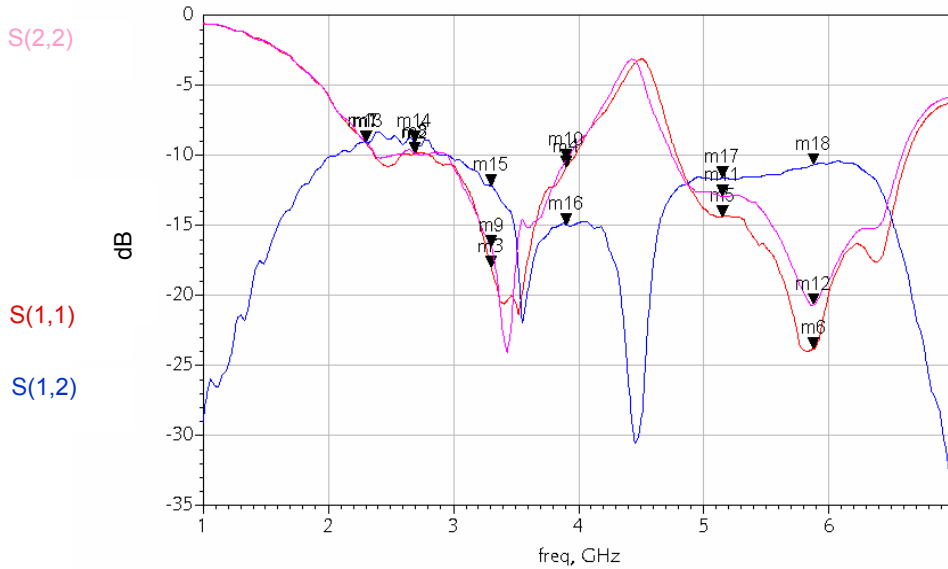
P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 3 of 9

Mounting Considerations

Return Loss & Isolation (Without Matching Circuits)



Ant1 return loss _ S(1,1)
 Ant2 return loss _ S(2,2)
 Ant1 & Ant2 isolation _ S(1,2)

m1 freq=2.300GHz dB(S(1,1))=-9.072	m2 freq=2.690GHz dB(S(1,1))=-9.901	m3 freq=3.300GHz dB(S(1,1))=-18.019	m4 freq=3.900GHz dB(S(1,1))=-10.890	m5 freq=5.150GHz dB(S(1,1))=-14.393	m6 freq=5.875GHz dB(S(1,1))=-23.835
--	--	---	---	---	---

m7 freq=2.300GHz dB(S(2,2))=-9.065	m8 freq=2.690GHz dB(S(2,2))=-9.849	m9 freq=3.300GHz dB(S(2,2))=-16.521	m10 freq=3.900GHz dB(S(2,2))=-10.368	m11 freq=5.150GHz dB(S(2,2))=-12.929	m12 freq=5.875GHz dB(S(2,2))=-20.665
--	--	---	--	--	--

m13 freq=2.300GHz dB(S(1,2))=-9.068	m14 freq=2.690GHz dB(S(1,2))=-9.085	m15 freq=3.300GHz dB(S(1,2))=-12.188	m16 freq=3.900GHz dB(S(1,2))=-14.939	m17 freq=5.150GHz dB(S(1,2))=-11.630	m18 freq=5.875GHz dB(S(1,2))=-10.668
---	---	--	--	--	--

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

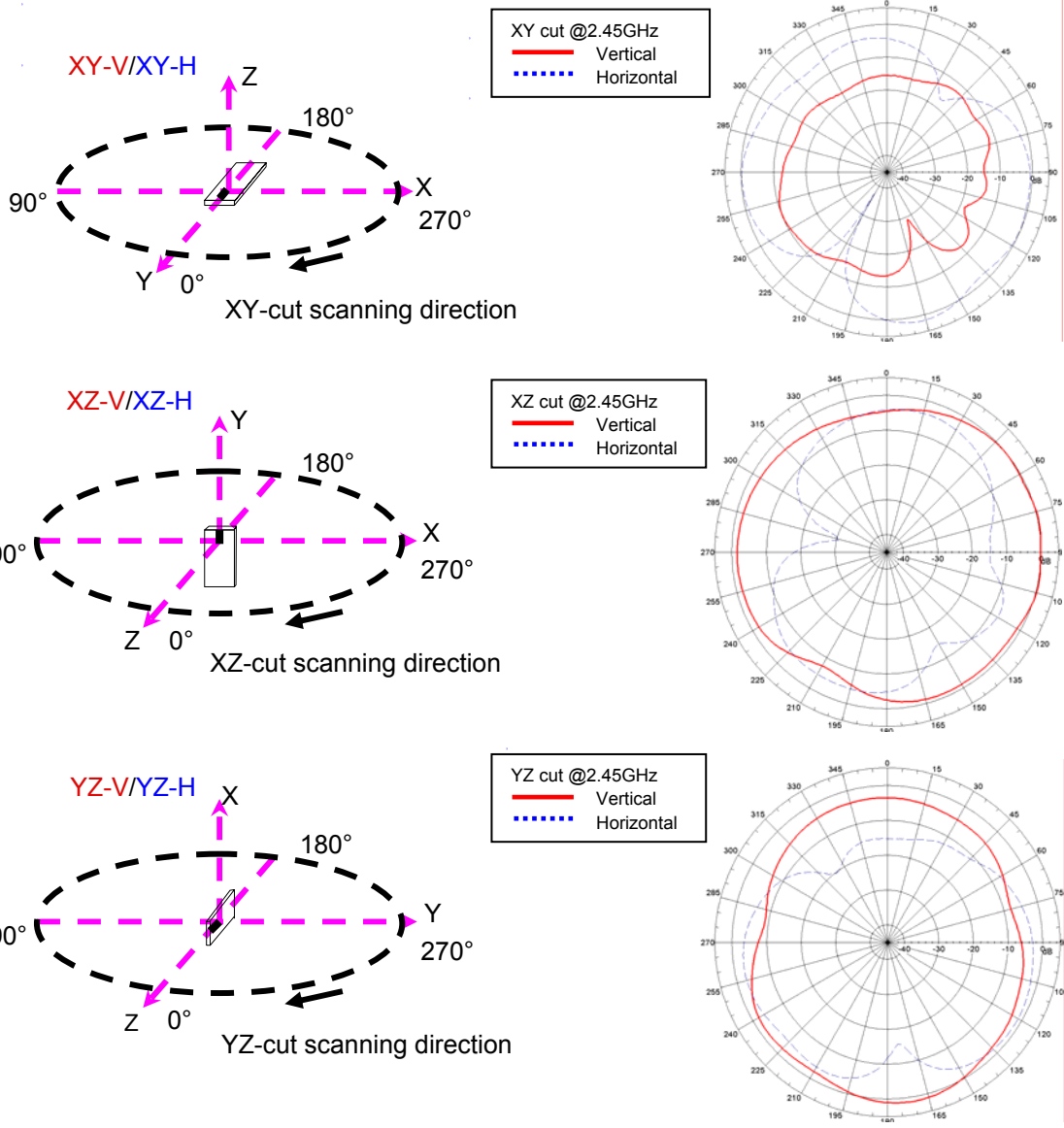
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 4 of 9

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

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

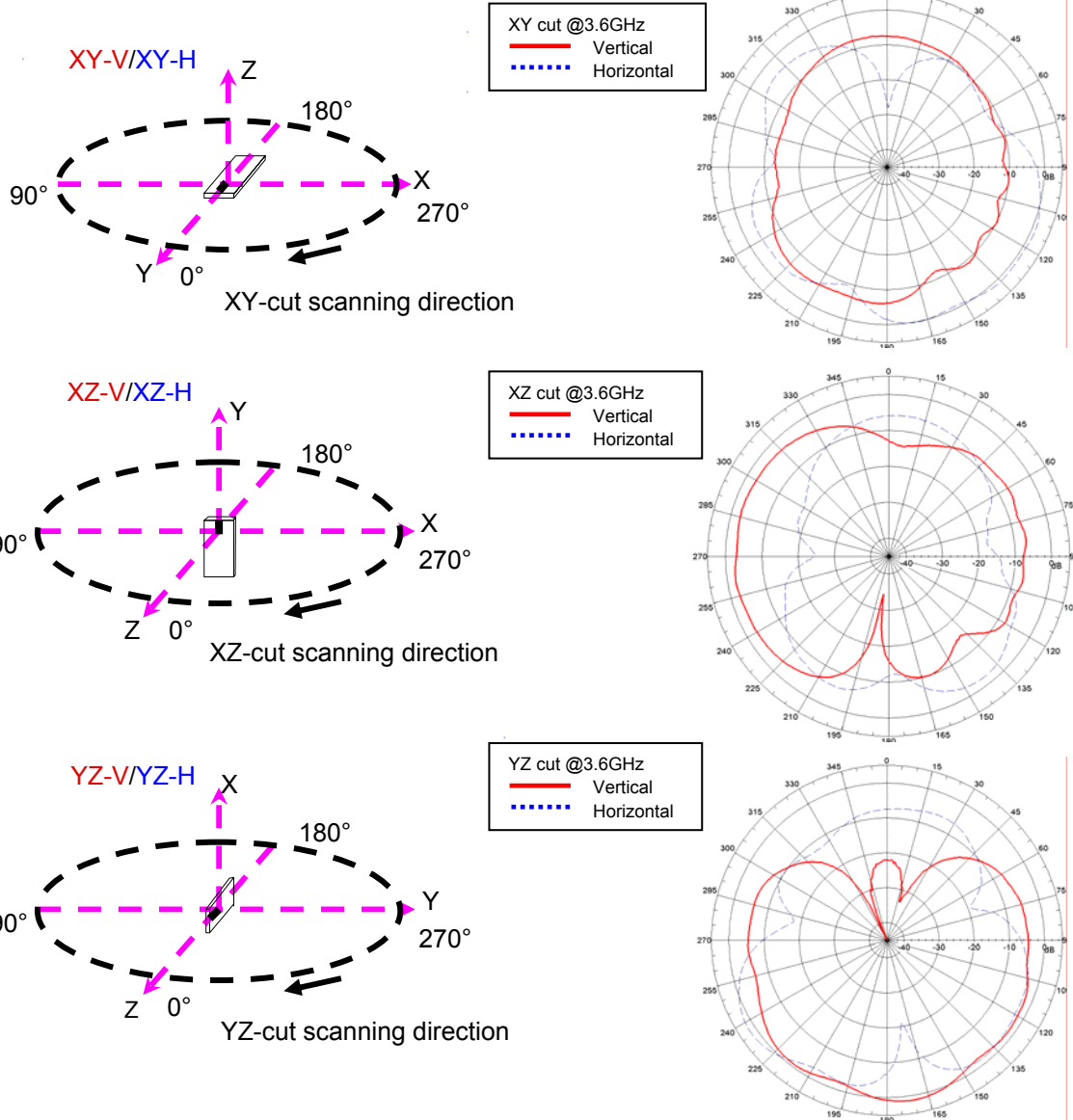
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 5 of 9

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

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

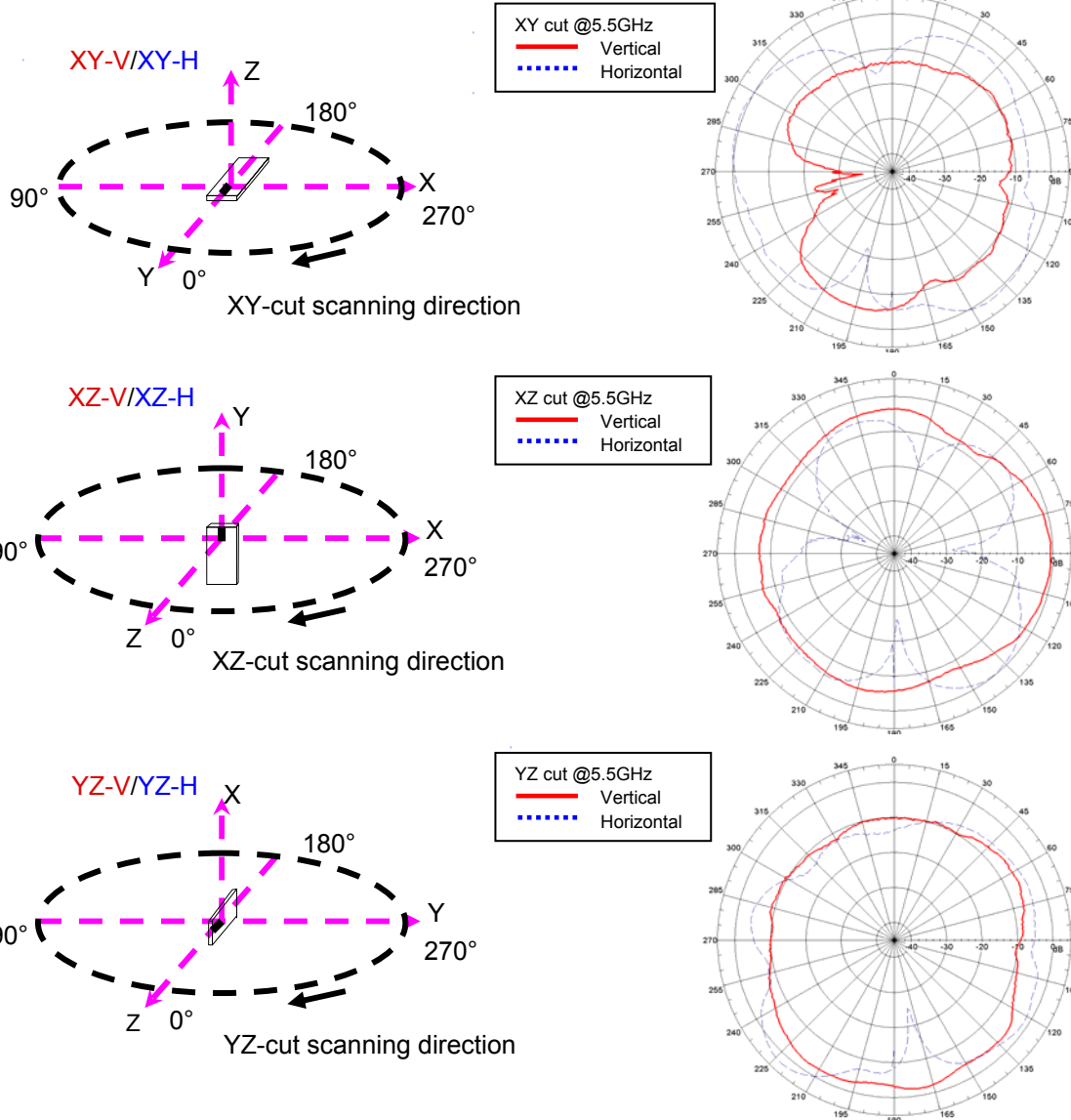
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 6 of 9

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

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

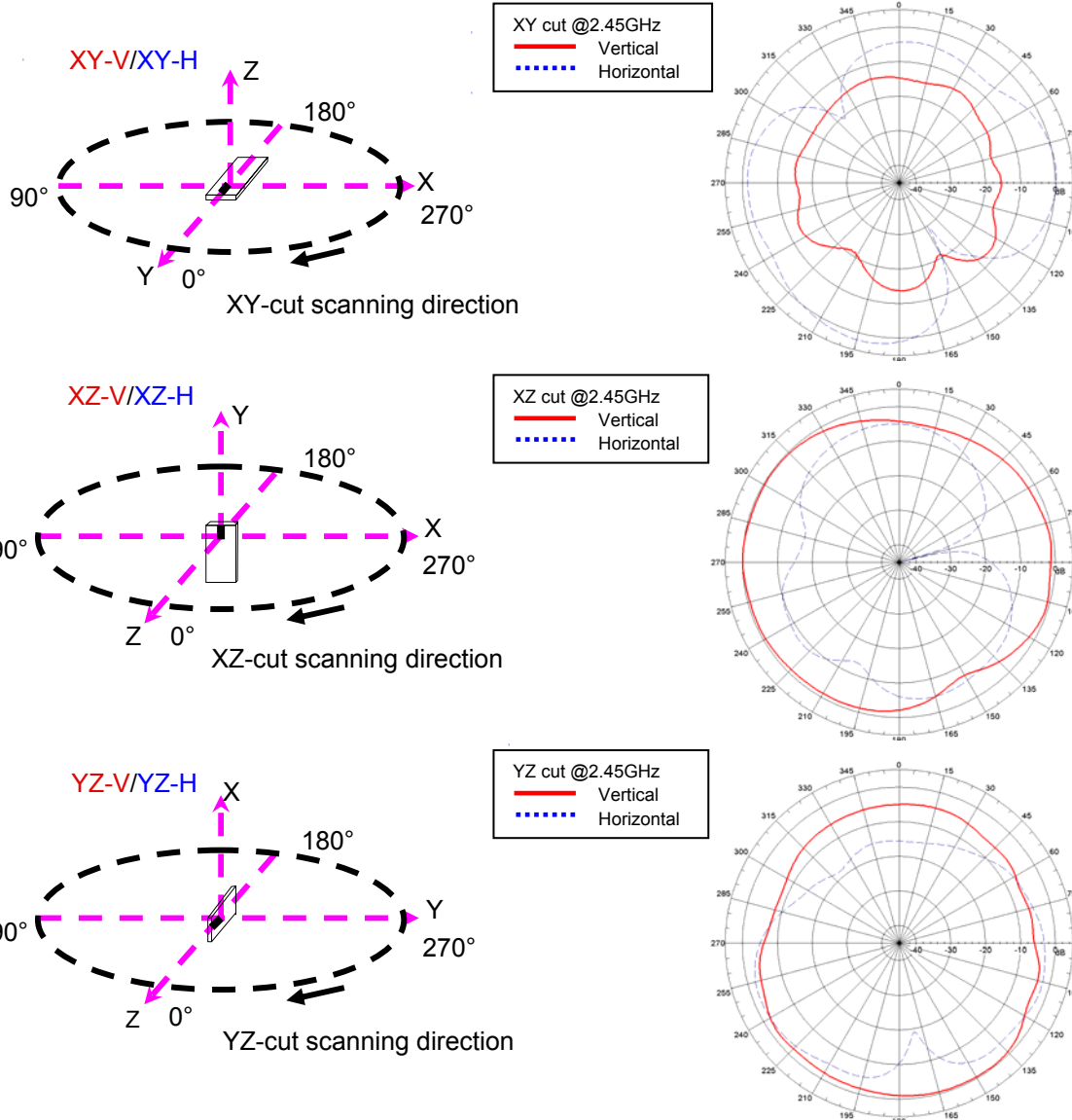
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 7 of 9

Ant2 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

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

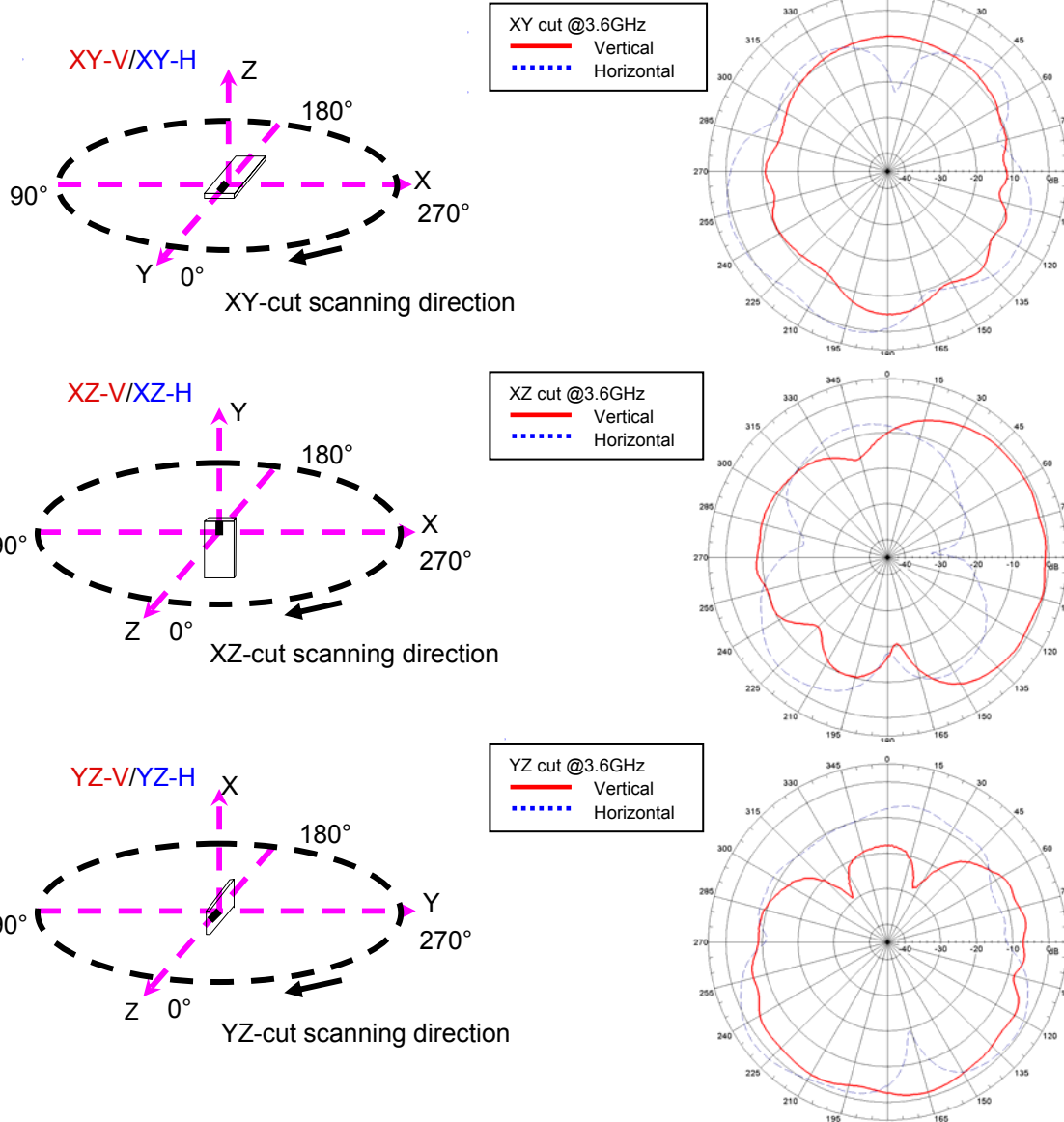
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 8 of 9

Ant2 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

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

2003 Johanson Technology, Inc. All Rights Reserved

High Frequency Ceramic Solutions

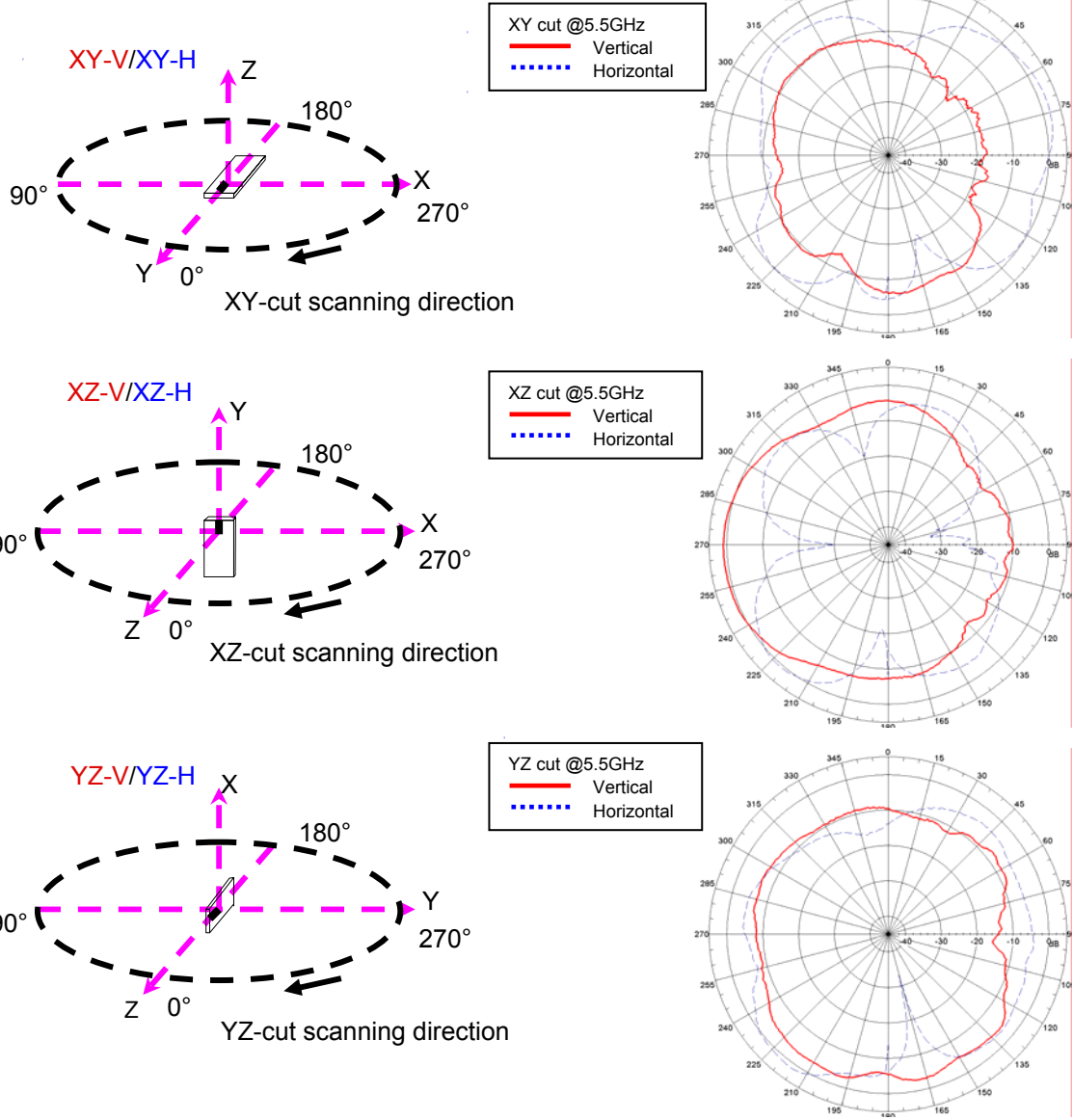
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 9 of 9

Ant2 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

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

2003 Johanson Technology, Inc. All Rights Reserved

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9