

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

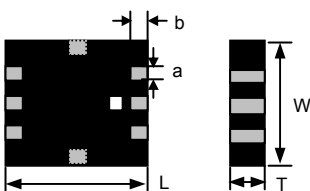
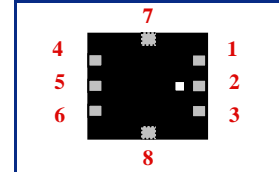
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2500AT52M3555S
		T & R	Suffix = E	Eg. 2500AT52M3555E
Termination Style		100% Tin	Suffix = None	Eg. 2500AT52M3555(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 2500AT52M3555(E or S)/Pb

Terminal Configuration

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

Mechanical Dimensions

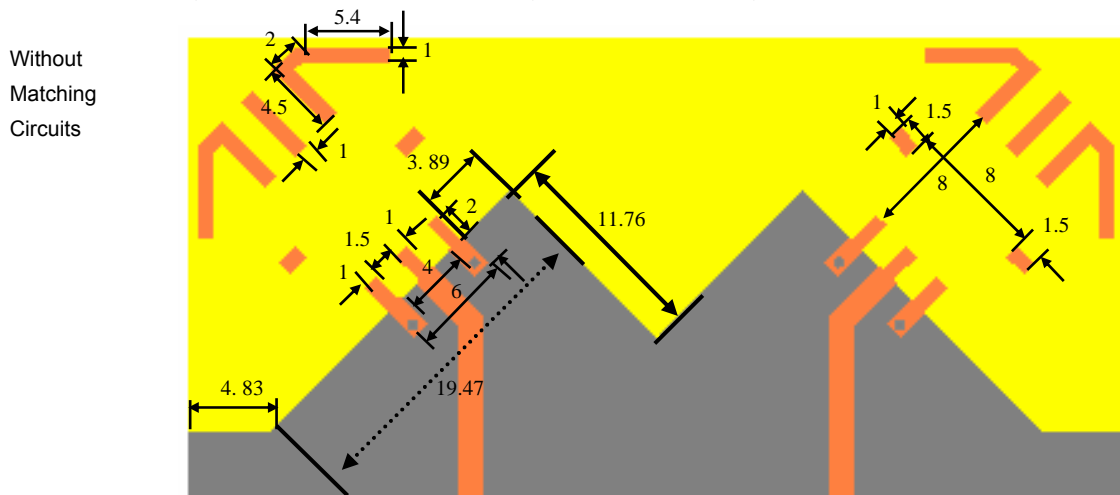
	In	mm
L	0.394 ± 0.012	10.00 ± 0.30
W	0.394 ± 0.012	10.00 ± 0.30
T	0.037 ± 0.010	0.95 ± 0.25
a	0.039 ± 0.012	1.00 ± 0.30
b	0.039 ± 0.012	1.00 ± 0.30

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

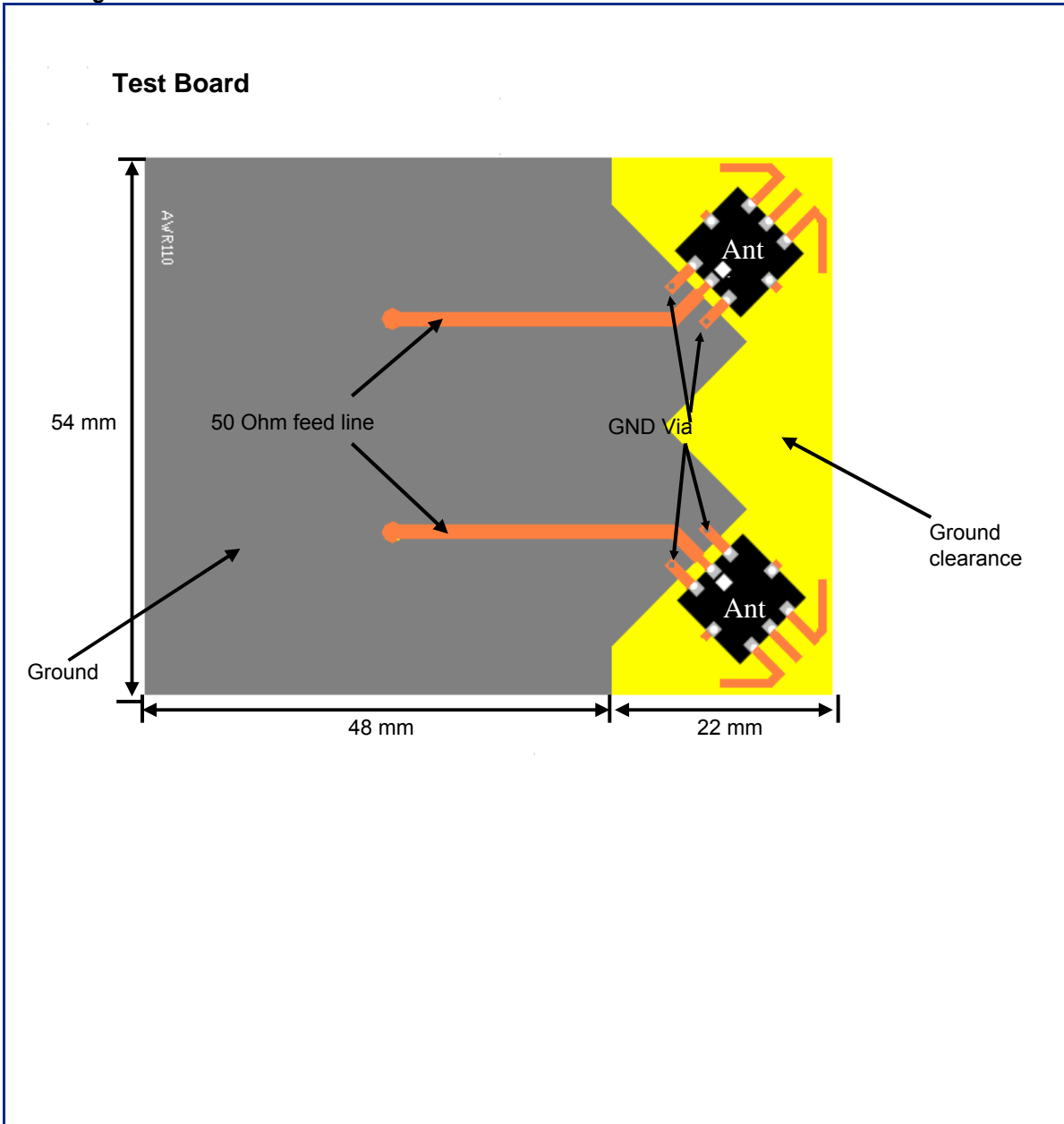
(Tri-Band) WiMax Antenna

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

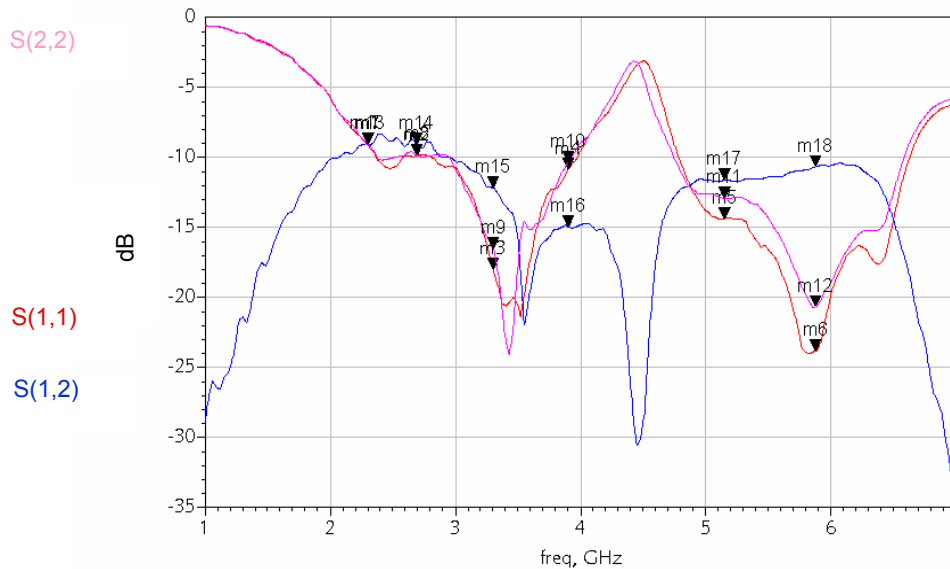
P/N 2500AT52M3555

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

m7
 freq=2.300GHz
 dB(S(2,2))=-9.065

m13
 freq=2.300GHz
 dB(S(1,2))=-9.068

m2
 freq=2.690GHz
 dB(S(1,1))=-9.901

m8
 freq=2.690GHz
 dB(S(2,2))=-9.849

m14
 freq=2.690GHz
 dB(S(1,2))=-9.085

m3
 freq=3.300GHz
 dB(S(1,1))=-18.019

m9
 freq=3.300GHz
 dB(S(2,2))=-16.521

m15
 freq=3.300GHz
 dB(S(1,2))=-12.188

m4
 freq=3.900GHz
 dB(S(1,1))=-10.890

m10
 freq=3.900GHz
 dB(S(2,2))=-10.368

m16
 freq=3.900GHz
 dB(S(1,2))=-14.939

m5
 freq=5.150GHz
 dB(S(1,1))=-14.393

m11
 freq=5.150GHz
 dB(S(2,2))=-12.929

m17
 freq=5.150GHz
 dB(S(1,2))=-11.630

m6
 freq=5.875GHz
 dB(S(1,1))=-23.835

m12
 freq=5.875GHz
 dB(S(2,2))=-20.665

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

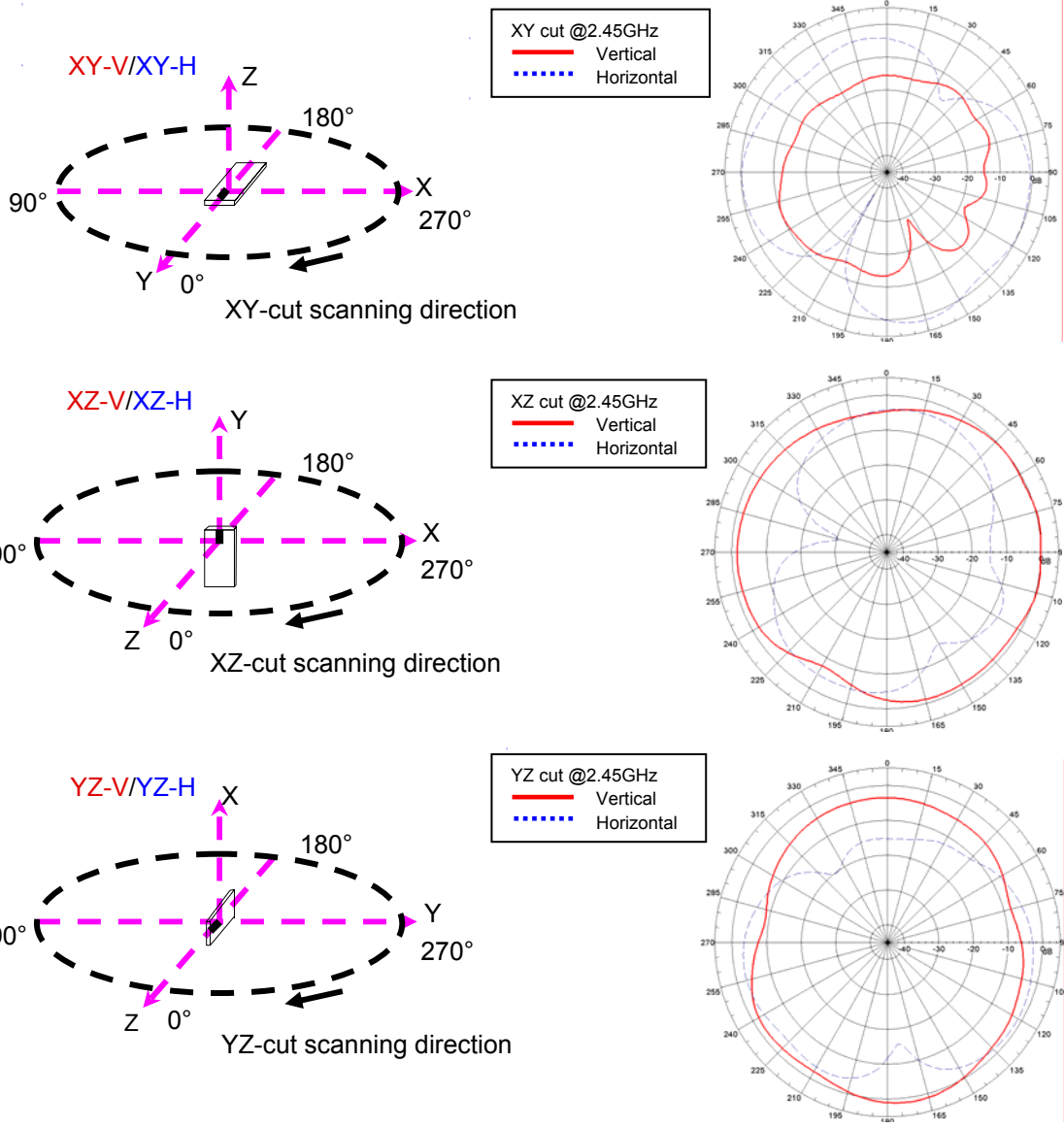
(Tri-Band) WiMax Antenna

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

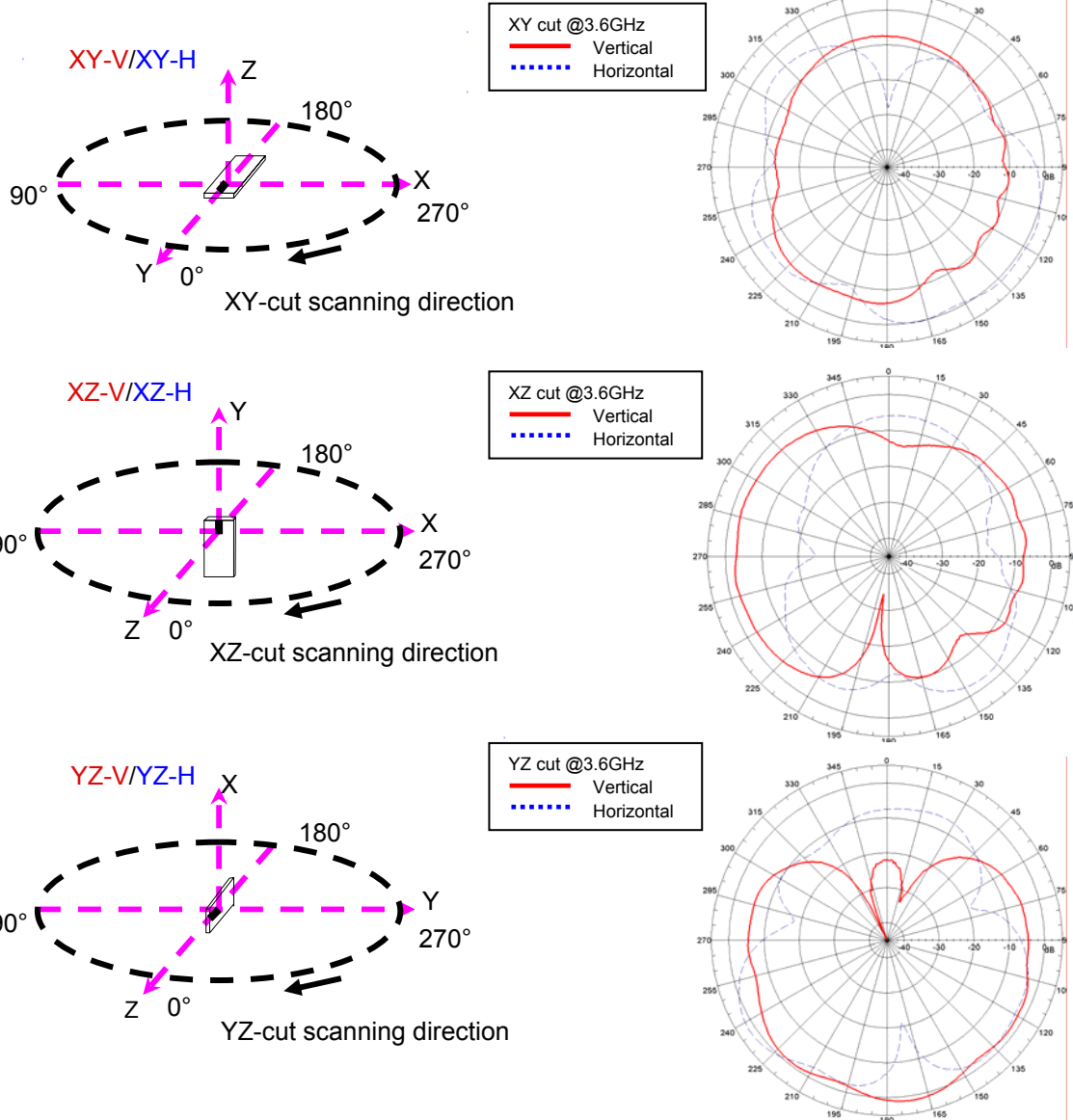
(Tri-Band) WiMax Antenna

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

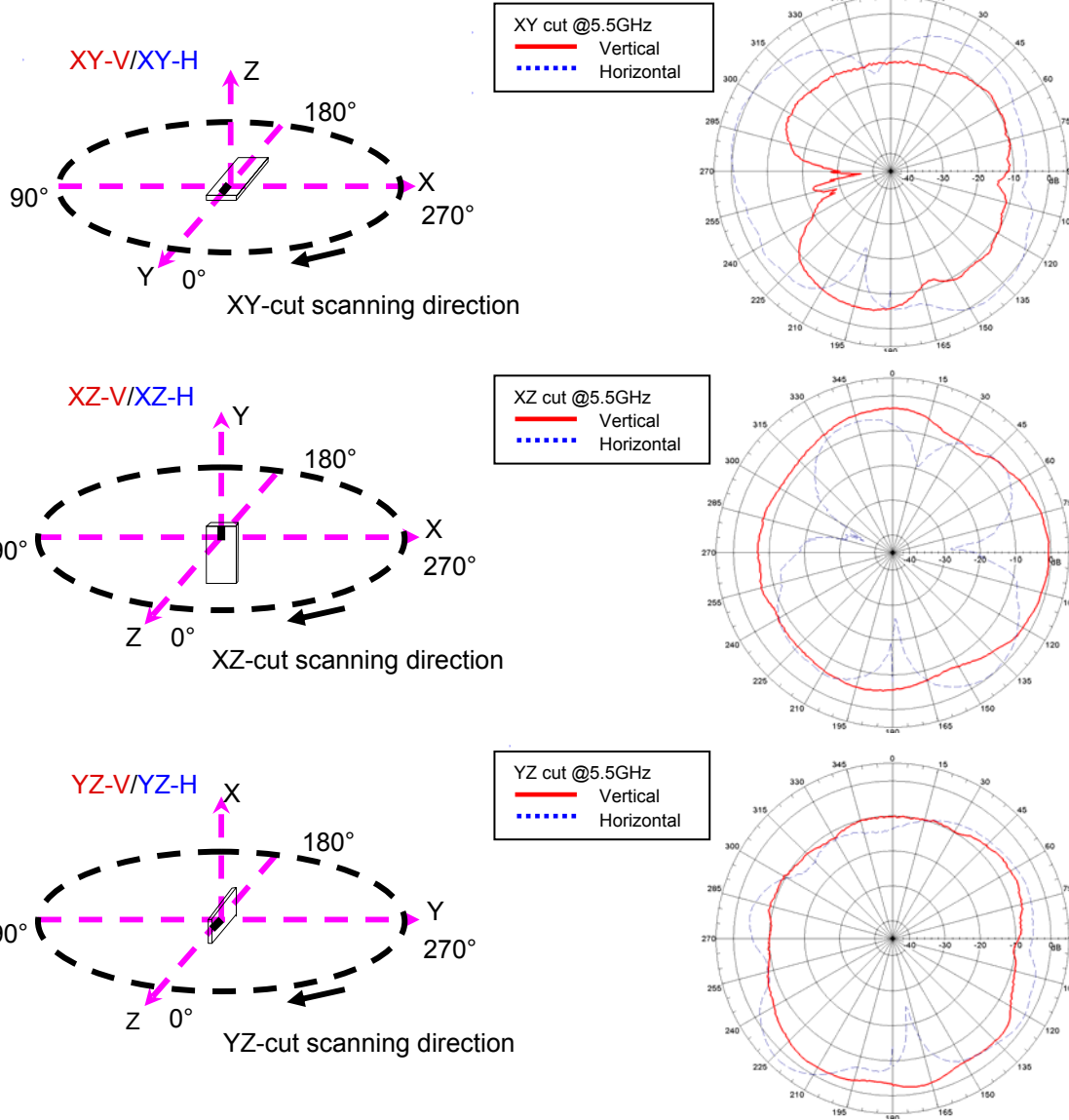
(Tri-Band) WiMax Antenna

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

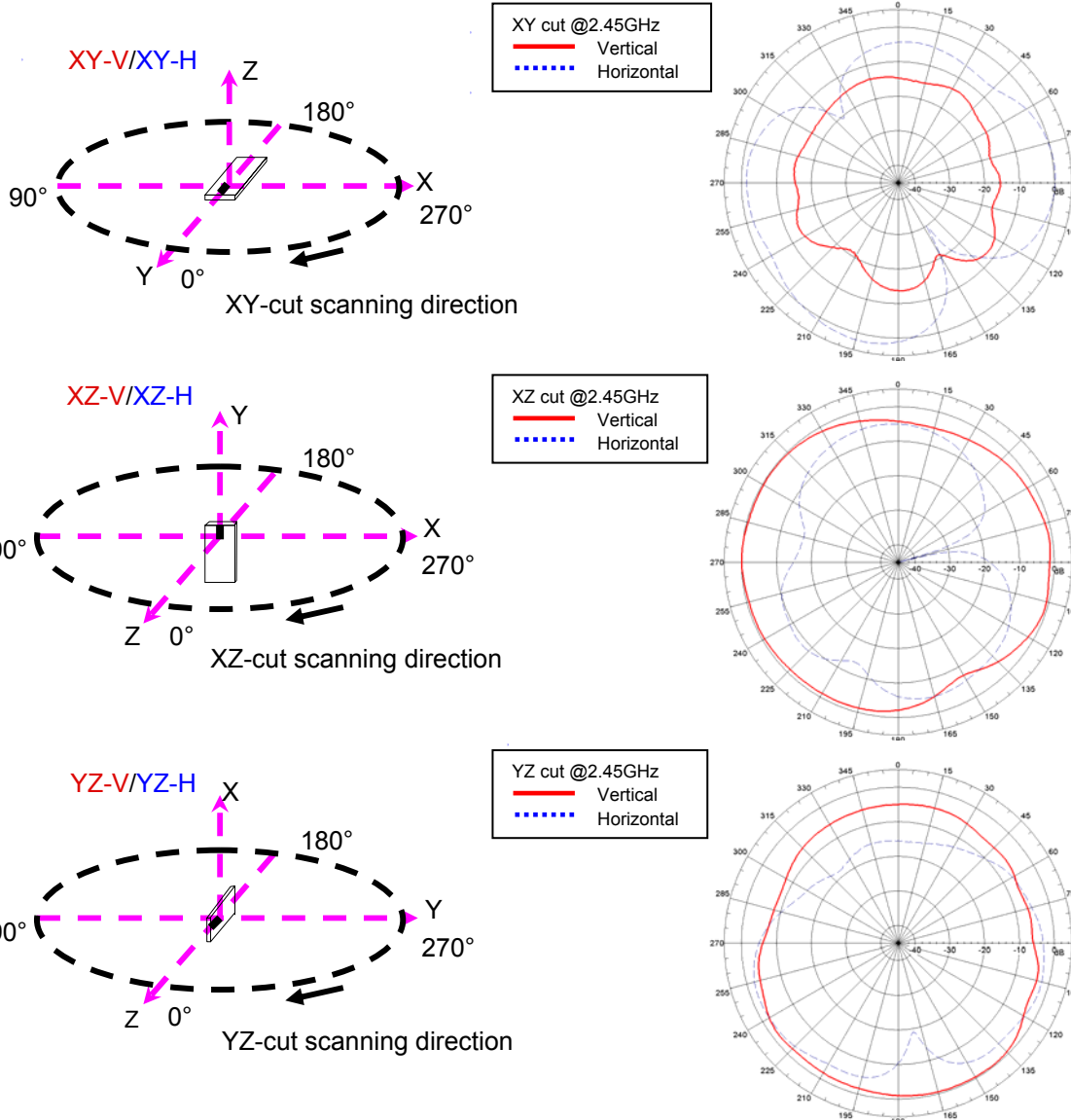
(Tri-Band) WiMax Antenna

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

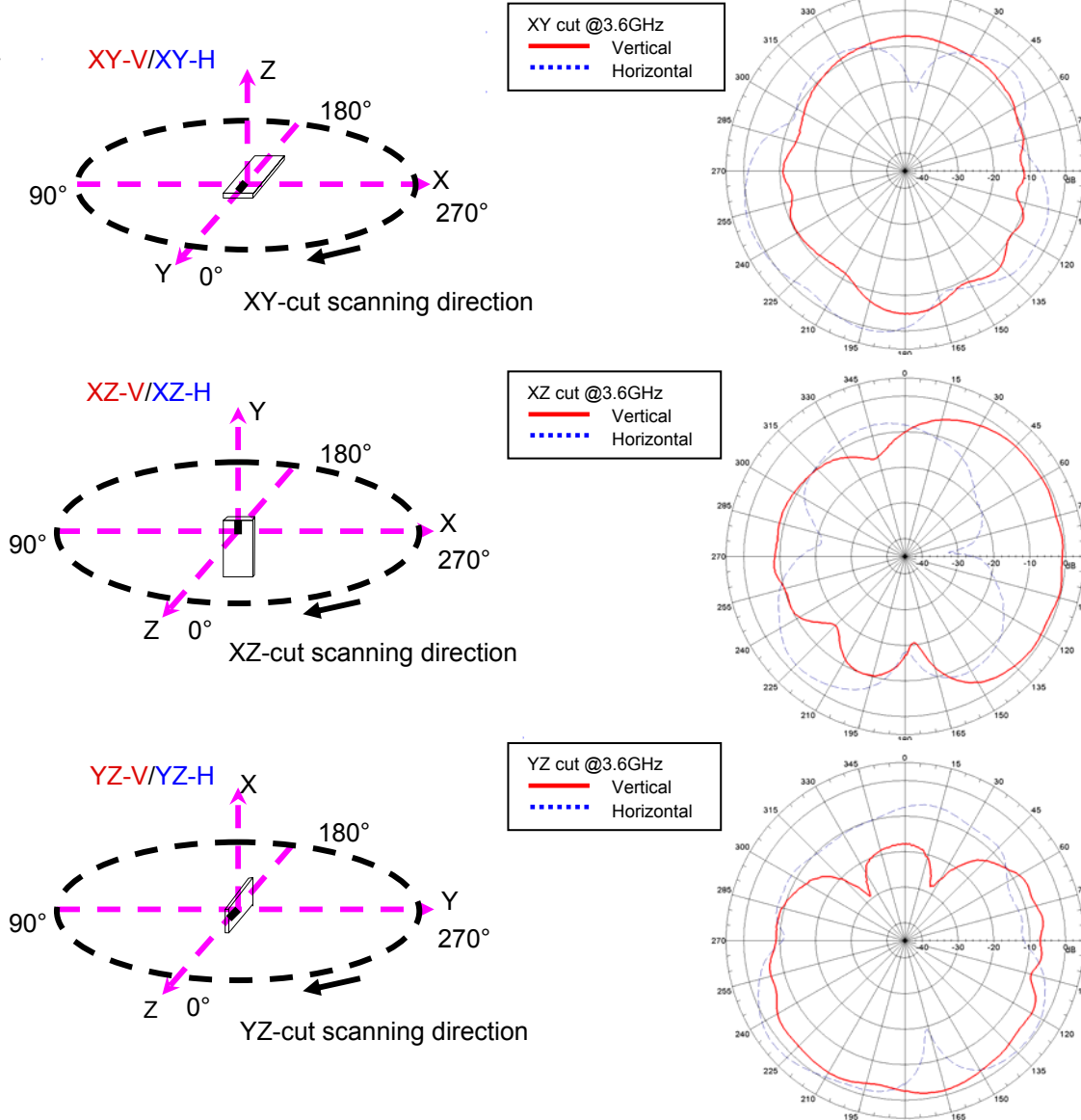
(Tri-Band) WiMax Antenna

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

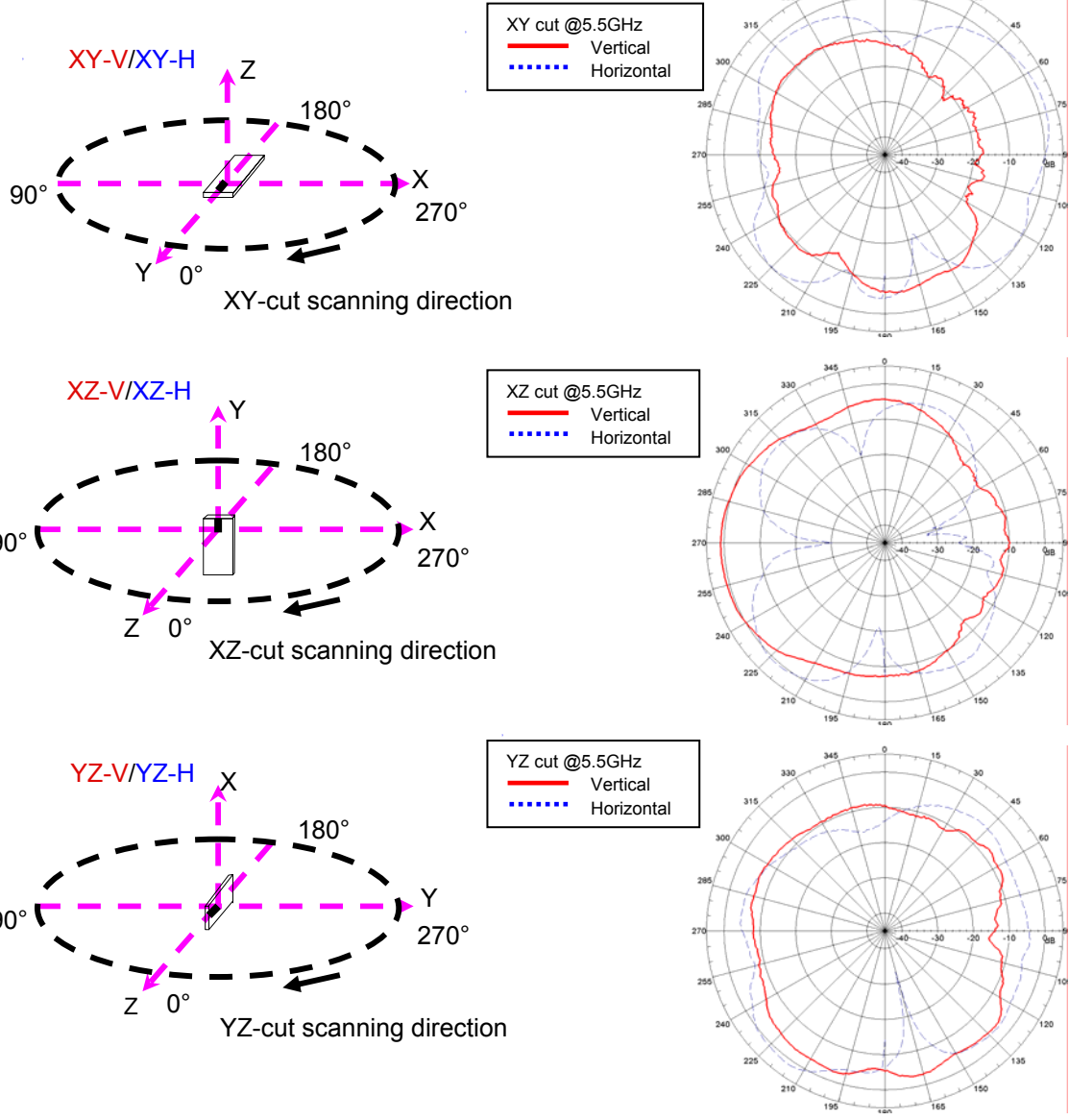
(Tri-Band) WiMax Antenna

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.