

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 |

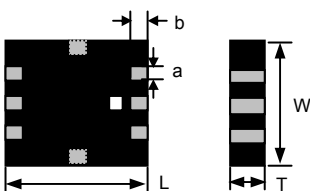
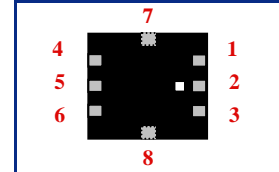
| | | | | |
|-------------------|--------------------------|------------|---------------|------------------------------|
| P/N Suffix | Packaging Style | Bulk | Suffix = S | Eg. 2500AT52M3555S |
| | | T & R | Suffix = E | Eg. 2500AT52M3555E |
| Suffix | Termination Style | 100% Tin | Suffix = None | 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

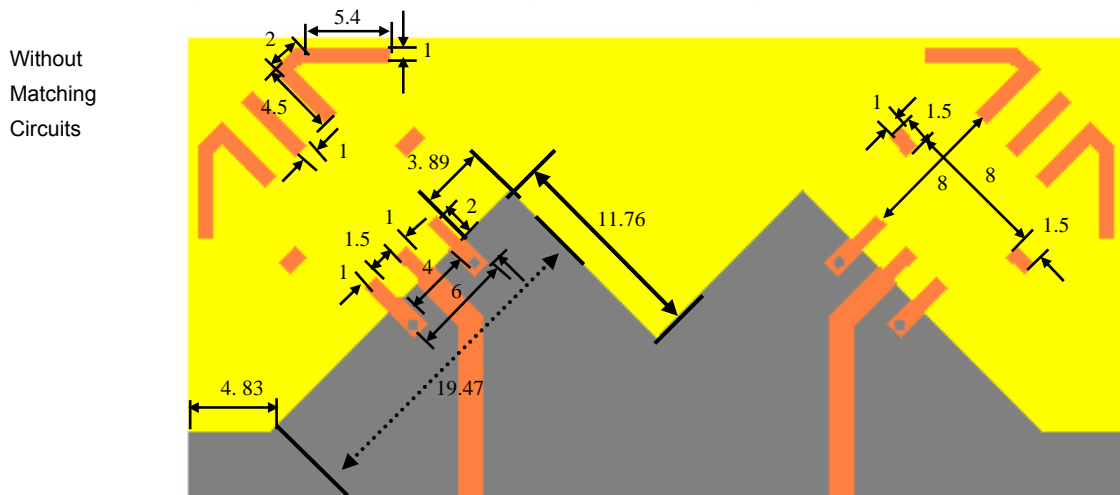
| | In | mm |
|----------|---------------|--------------|
| L | 0.394 ± 0.012 | 10.00 ± 0.30 |
| W | 0.394 ± 0.012 | 10.00 ± 0.30 |
| T | 0.037 ± 0.010 | 0.95 ± 0.25 |
| a | 0.039 ± 0.012 | 1.00 ± 0.30 |
| b | 0.039 ± 0.012 | 1.00 ± 0.30 |

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

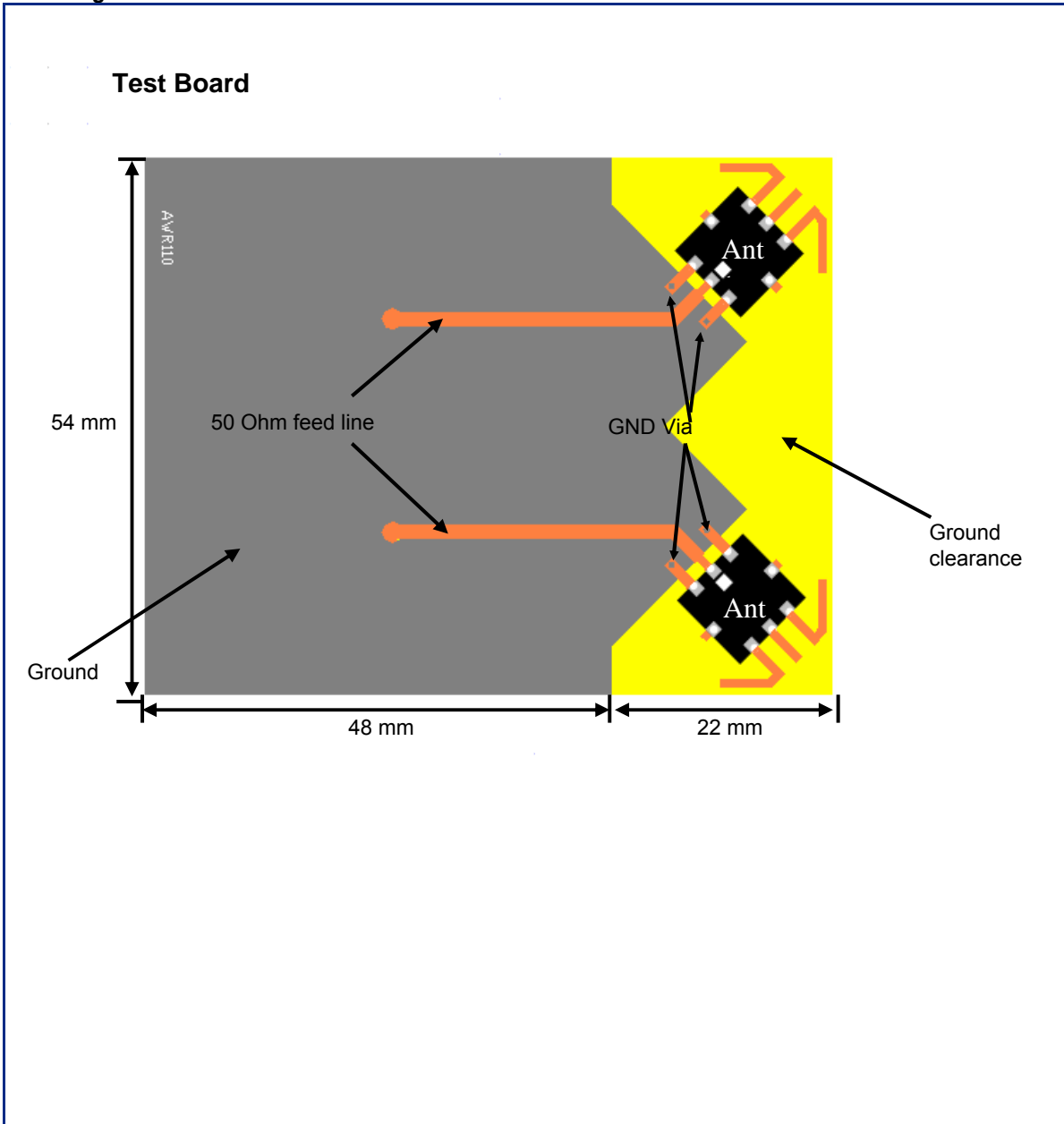
(Tri-Band) WiMax Antenna

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

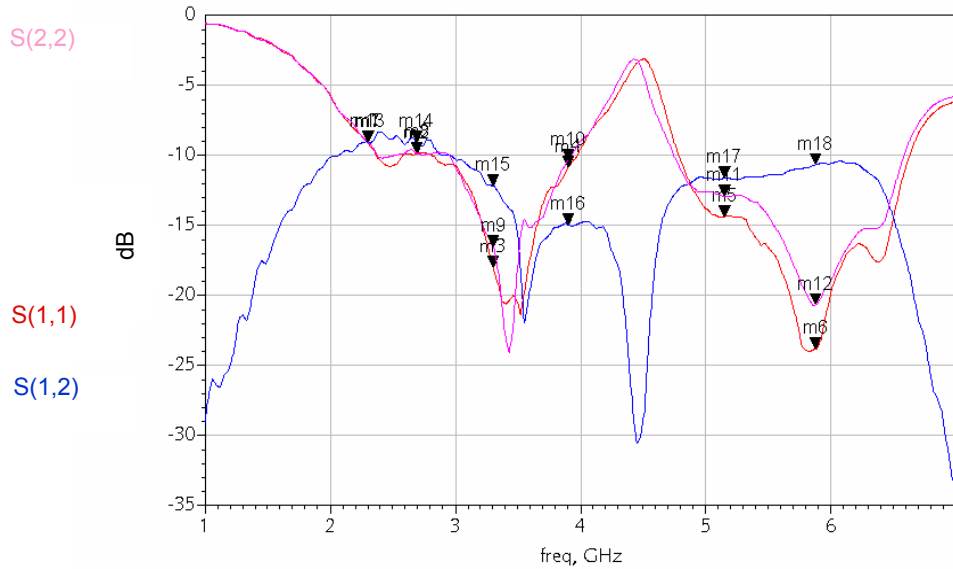
P/N 2500AT52M3555

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

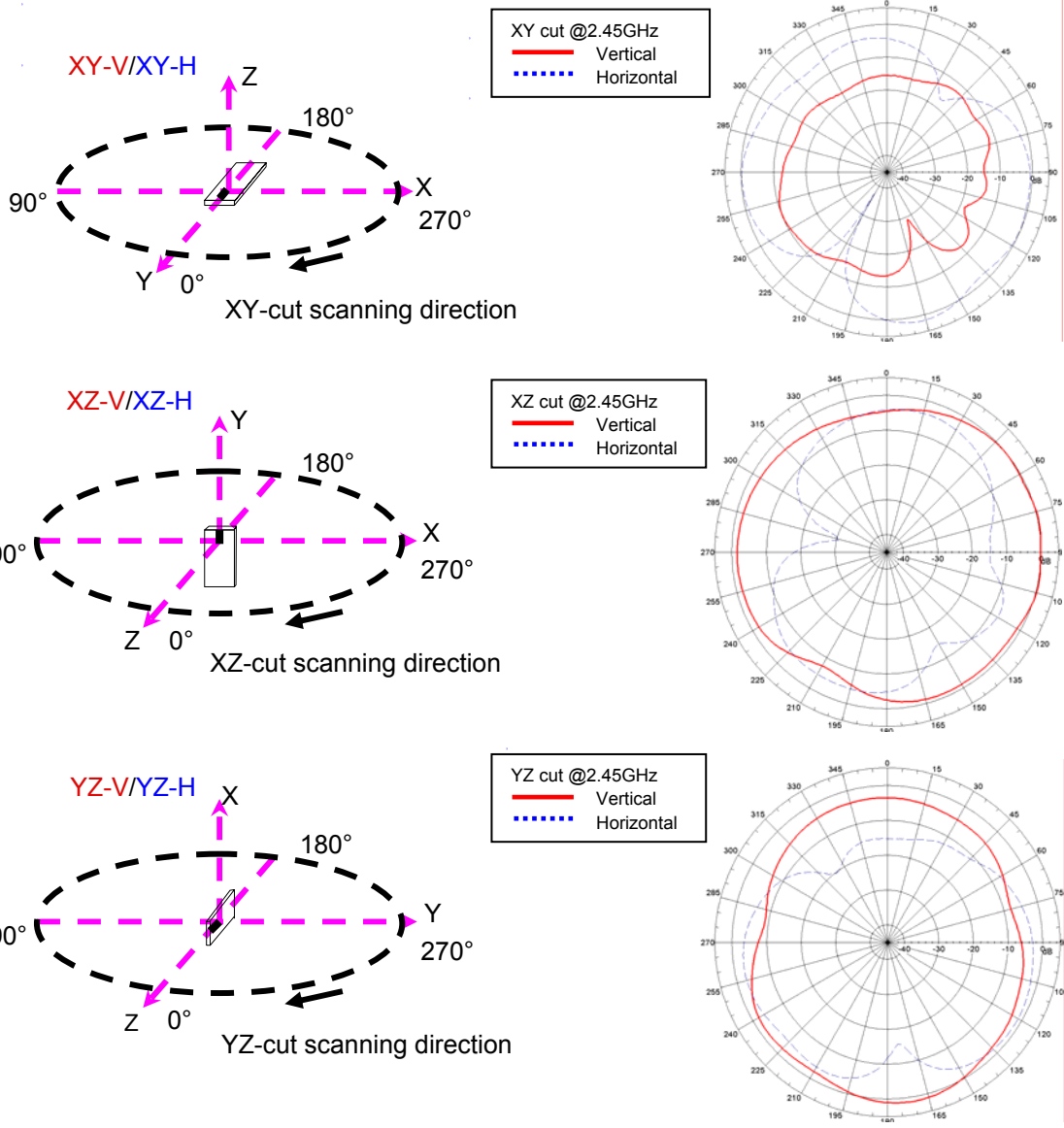
(Tri-Band) WiMax Antenna

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

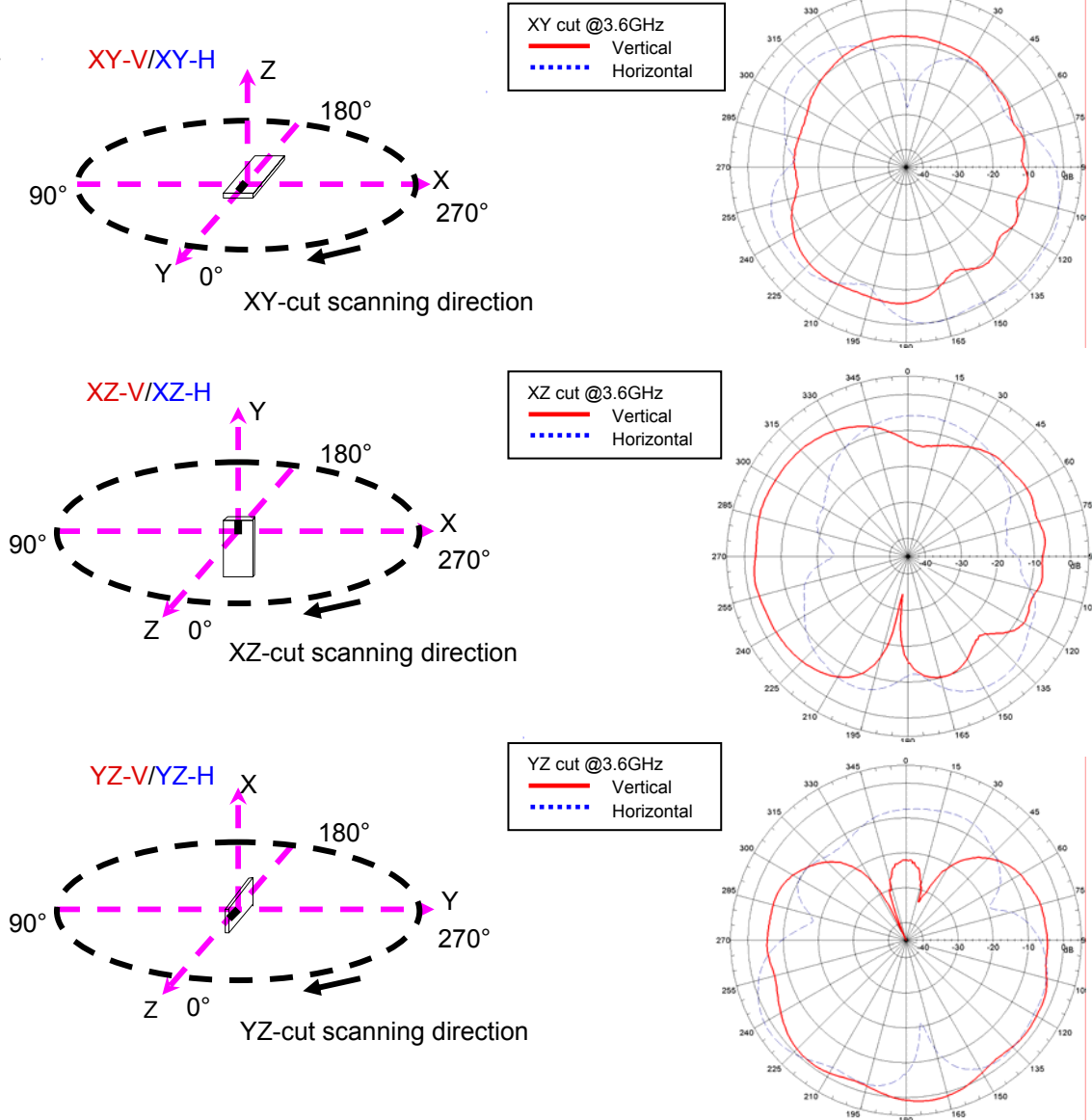
(Tri-Band) WiMax Antenna

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

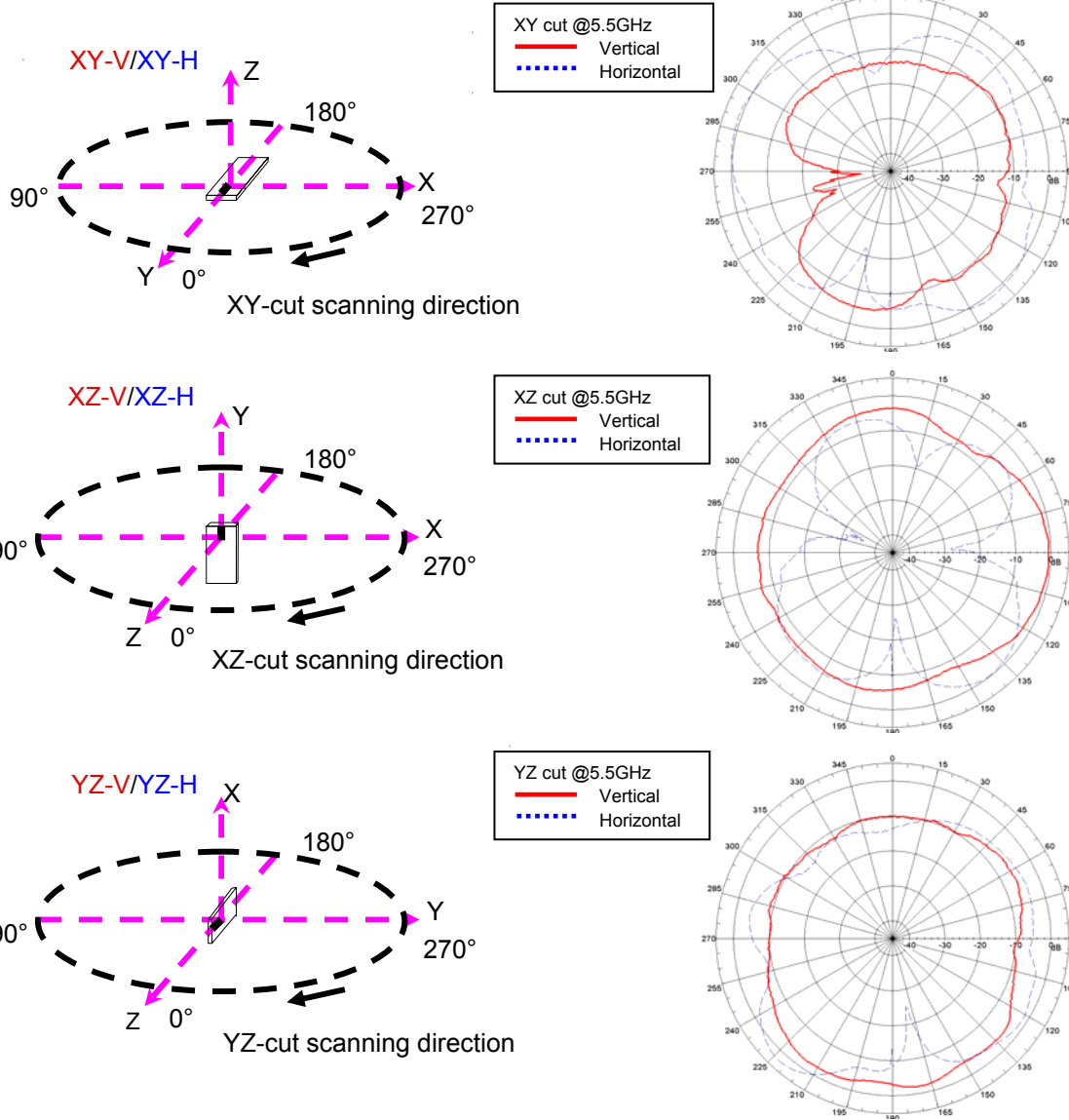
(Tri-Band) WiMax Antenna

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

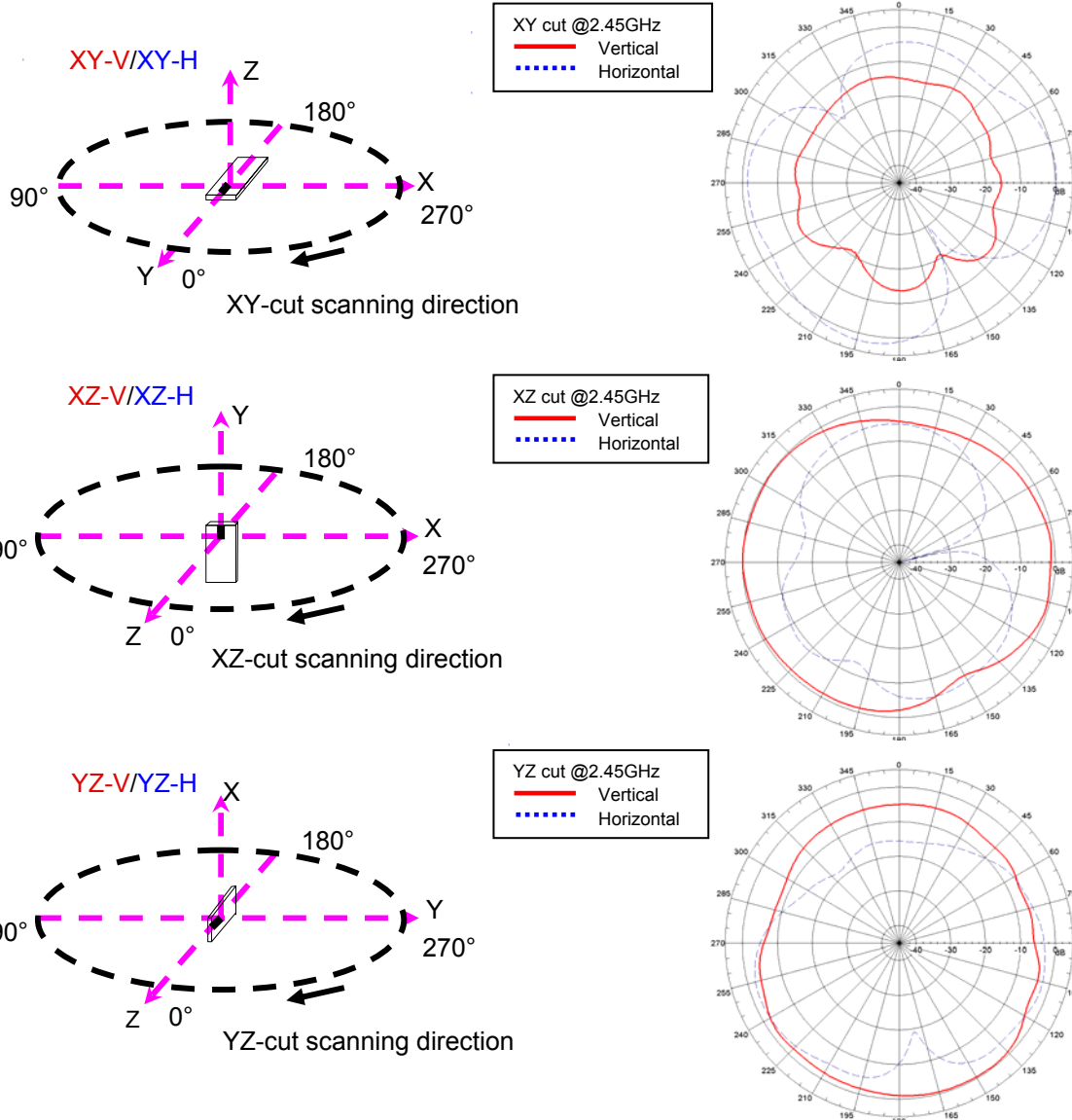
(Tri-Band) WiMax Antenna

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

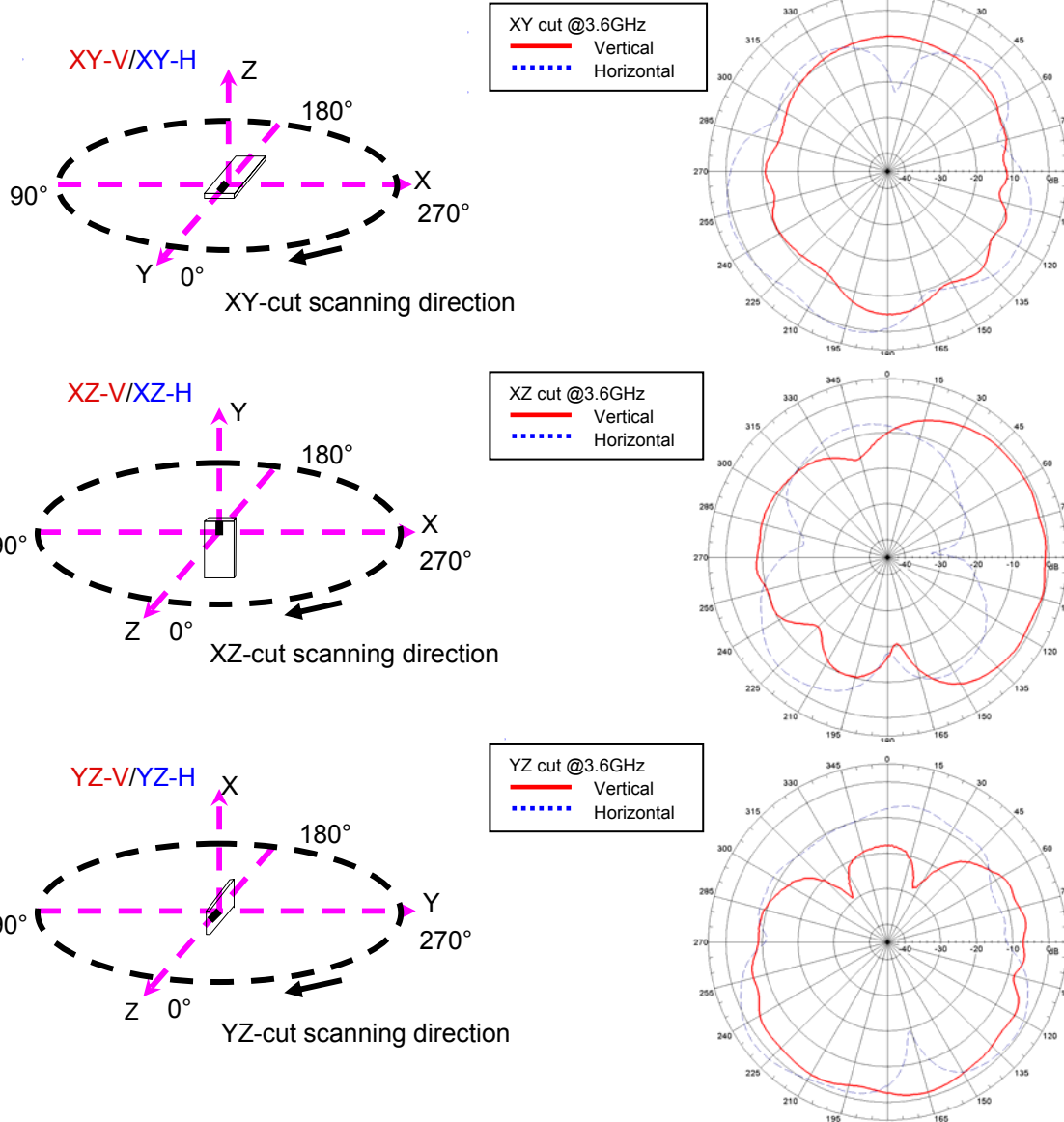
(Tri-Band) WiMax Antenna

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

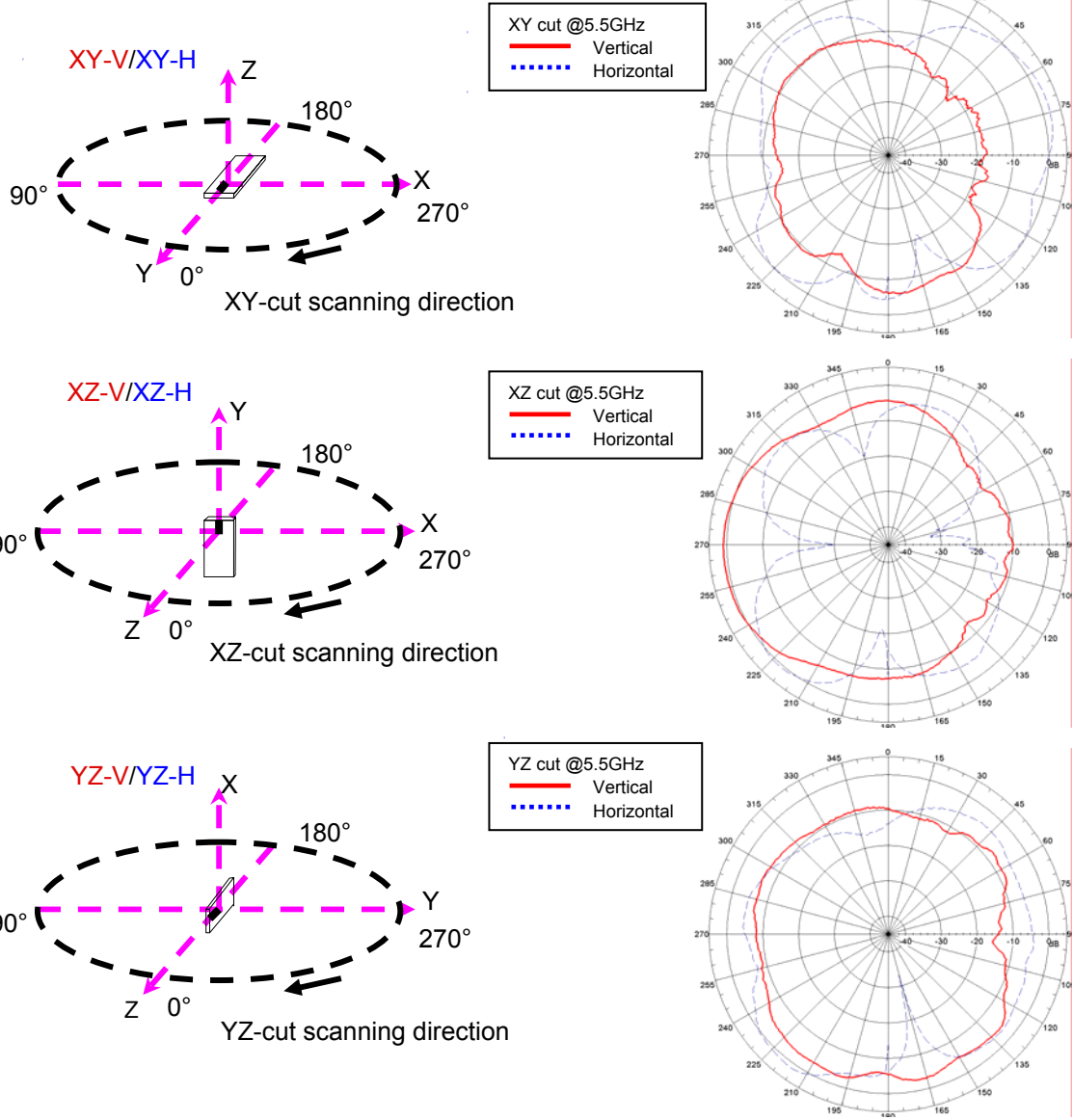
(Tri-Band) WiMax Antenna

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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru