

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

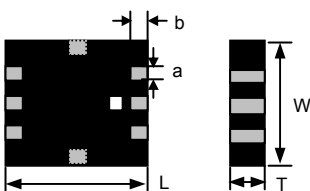
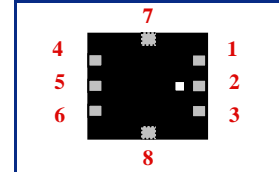
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2500AT52M3555S
		T & R	Suffix = E	Eg. 2500AT52M3555E
Termination Style		100% Tin	Suffix = None	Eg. 2500AT52M3555(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 2500AT52M3555(E or S)/Pb

Terminal Configuration

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

Mechanical Dimensions

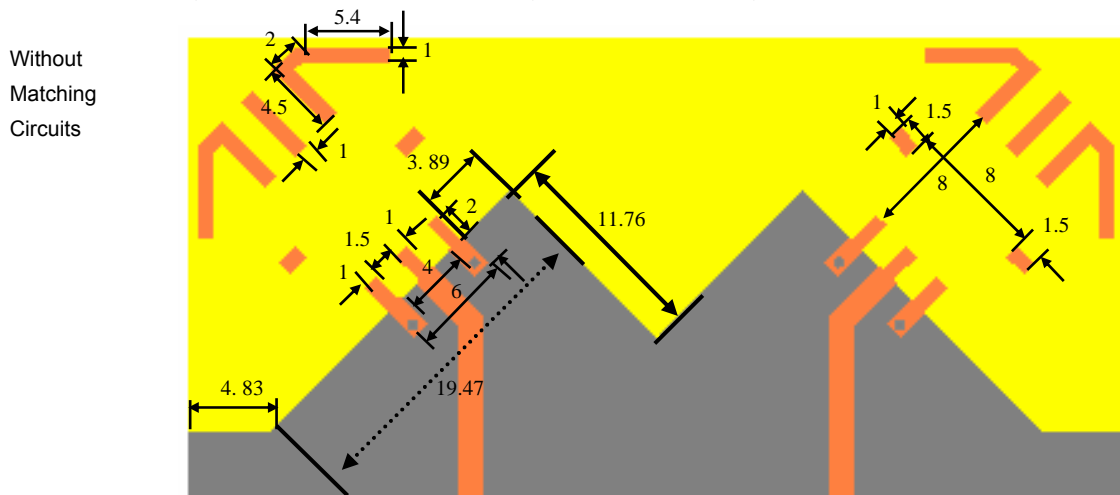
	In	mm
L	0.394 ± 0.012	10.00 ± 0.30
W	0.394 ± 0.012	10.00 ± 0.30
T	0.037 ± 0.010	0.95 ± 0.25
a	0.039 ± 0.012	1.00 ± 0.30
b	0.039 ± 0.012	1.00 ± 0.30

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.



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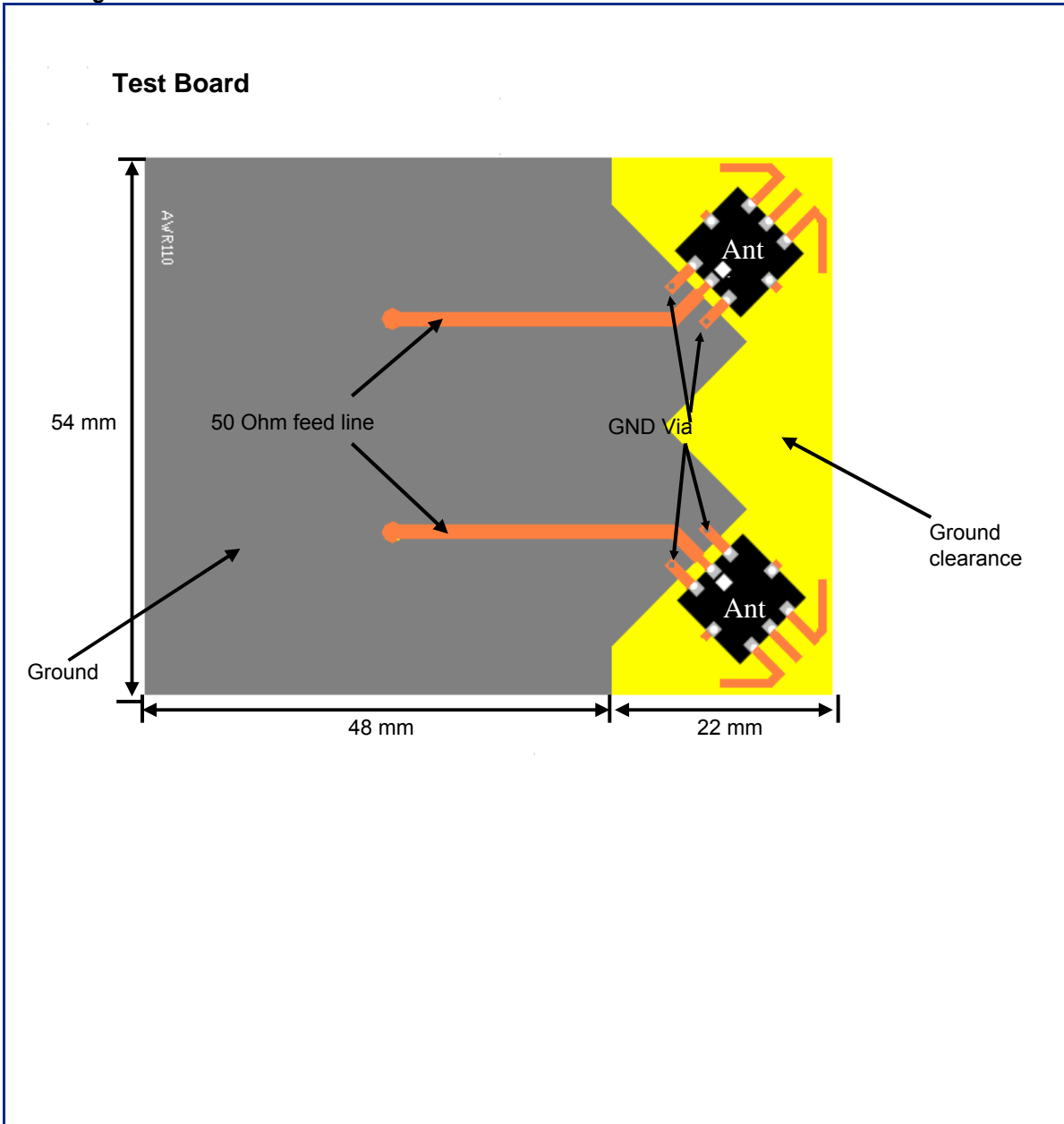
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 2 of 9

Mounting Considerations



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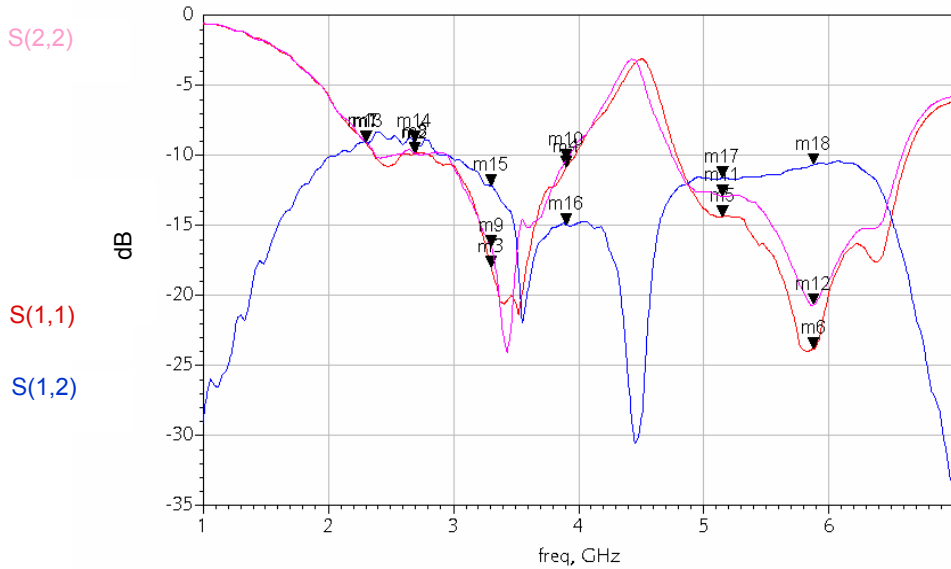
P/N 2500AT52M3555

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
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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
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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
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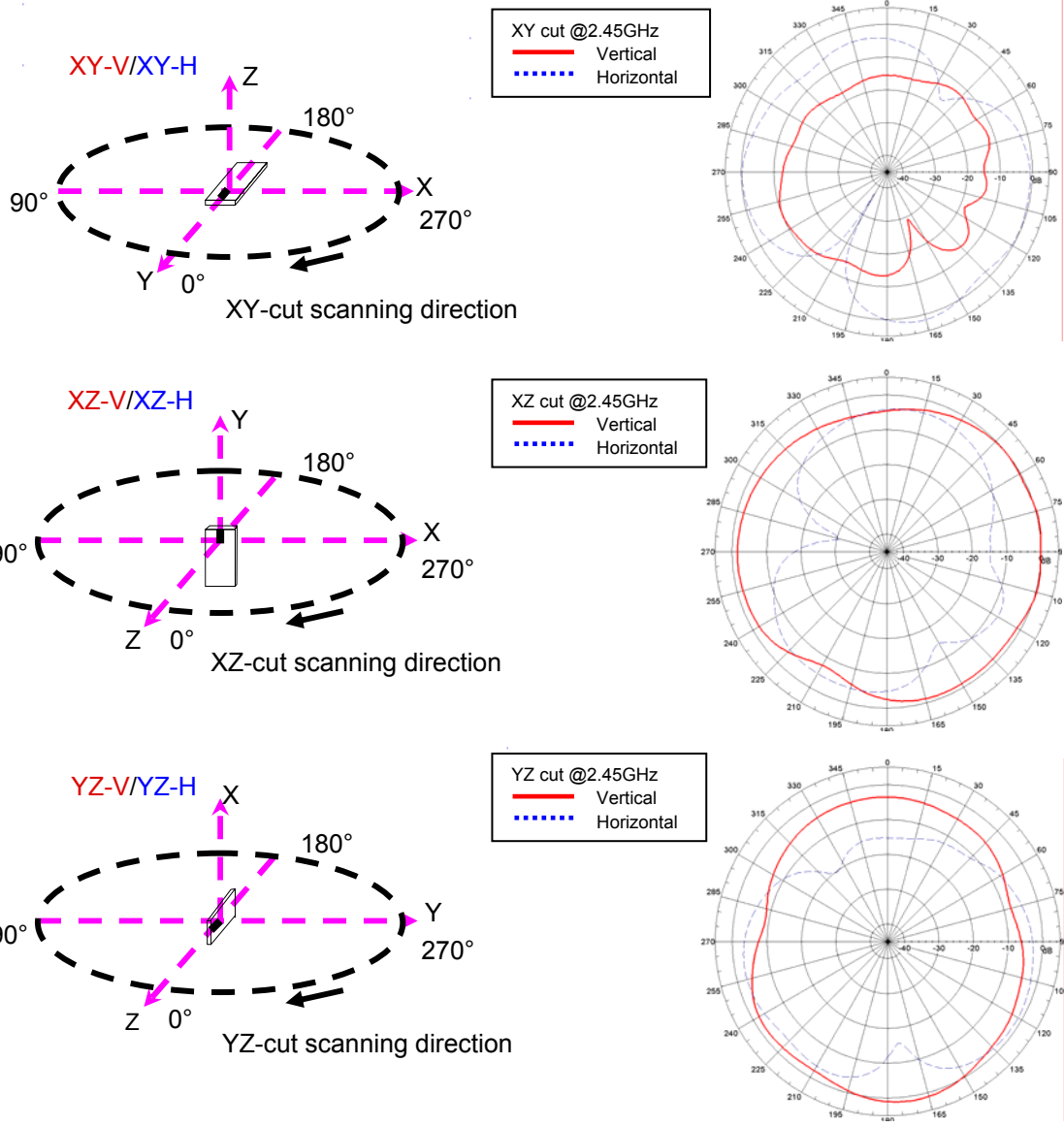
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 4 of 9

Ant1 Radiation Patterns



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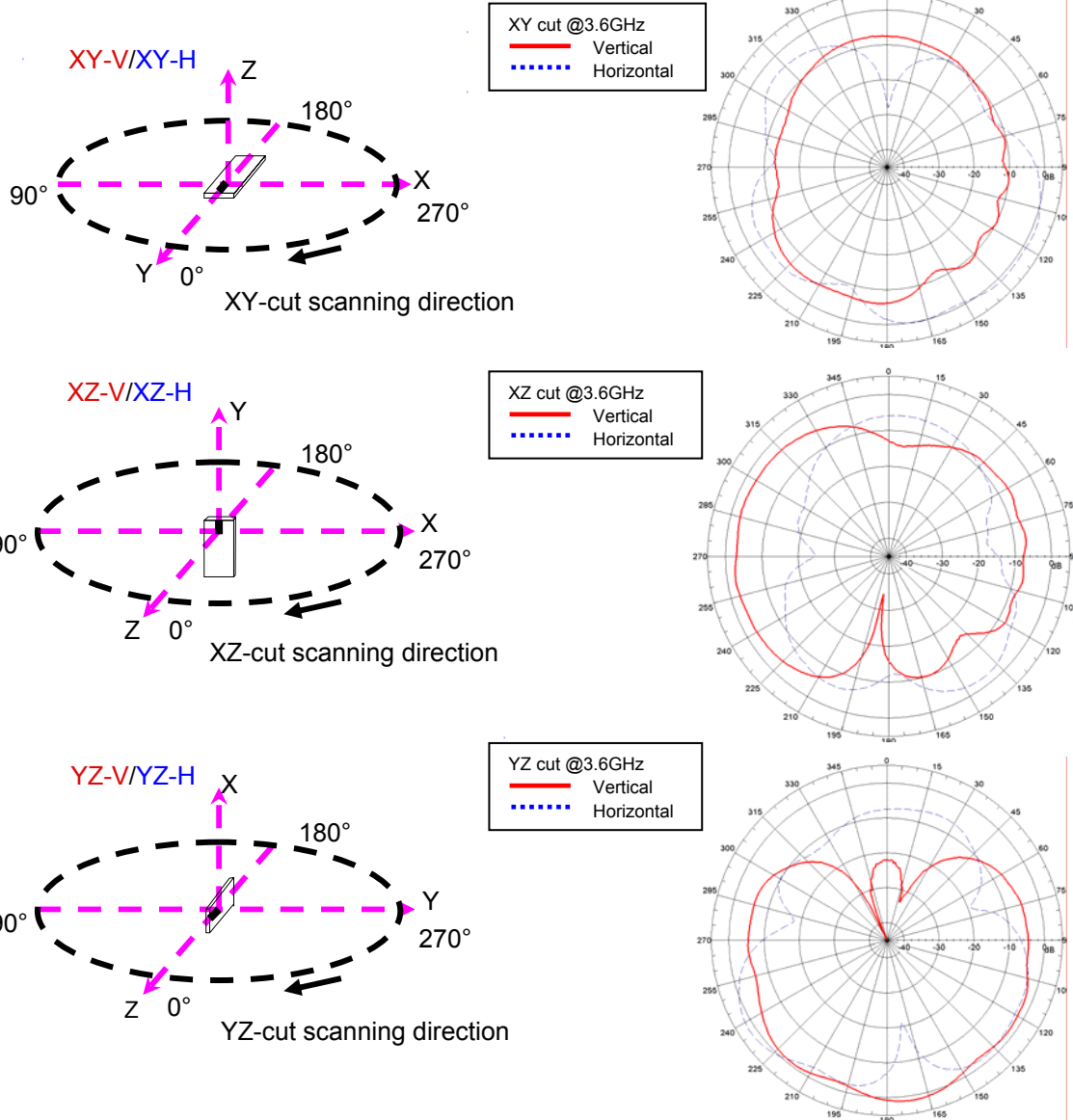
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 5 of 9

Ant1 Radiation Patterns



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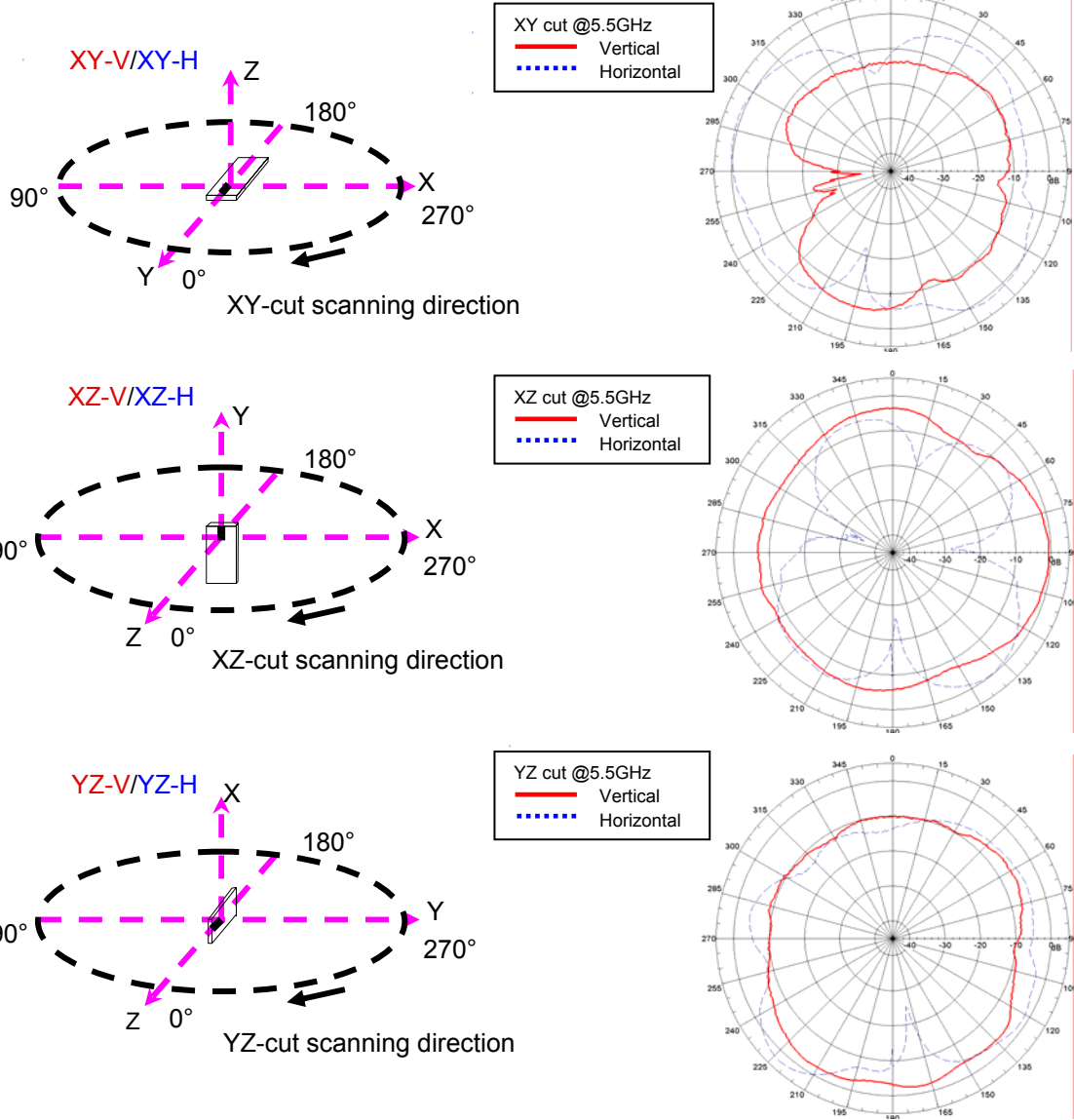
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 6 of 9

Ant1 Radiation Patterns



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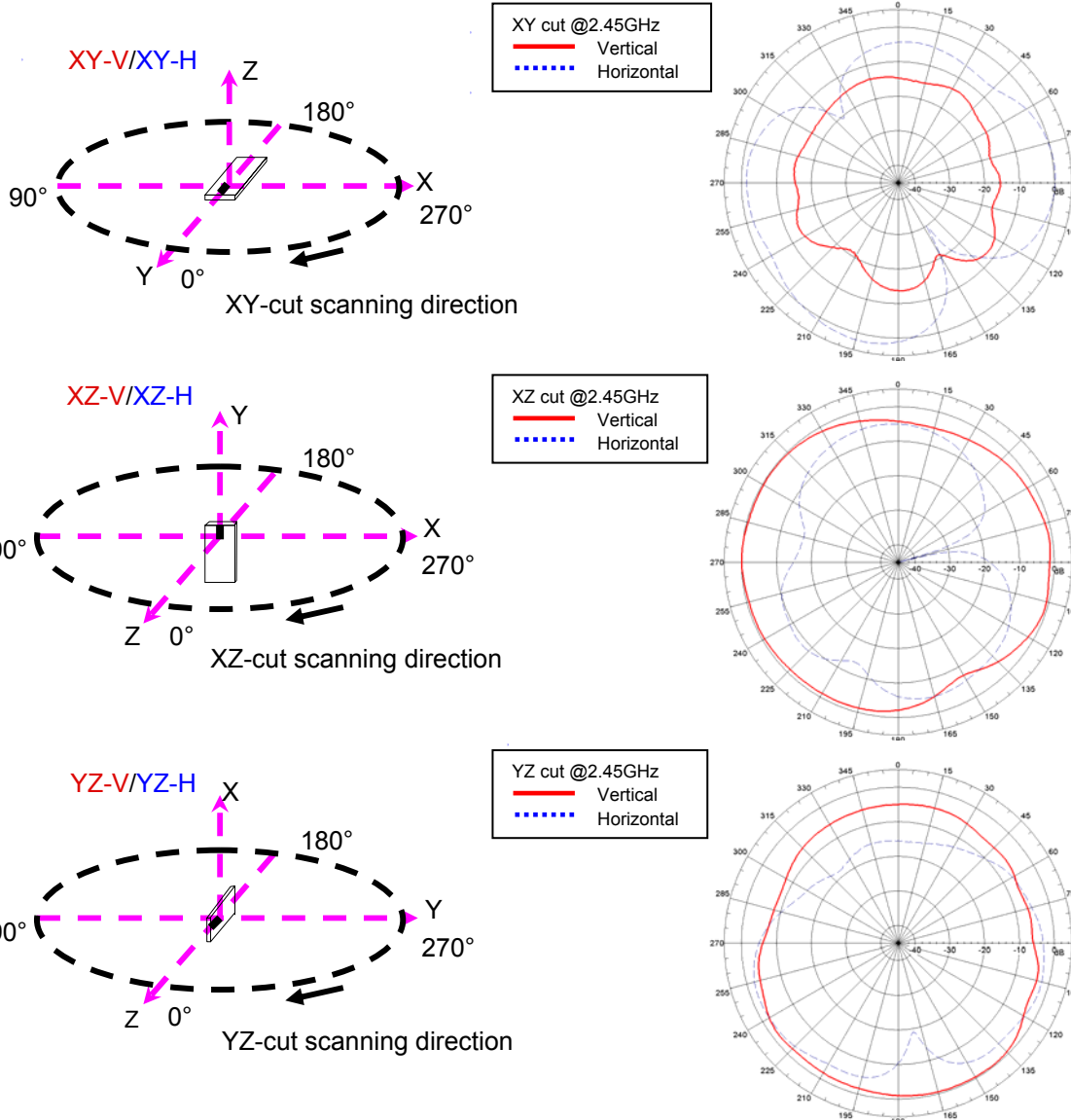
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 7 of 9

Ant2 Radiation Patterns



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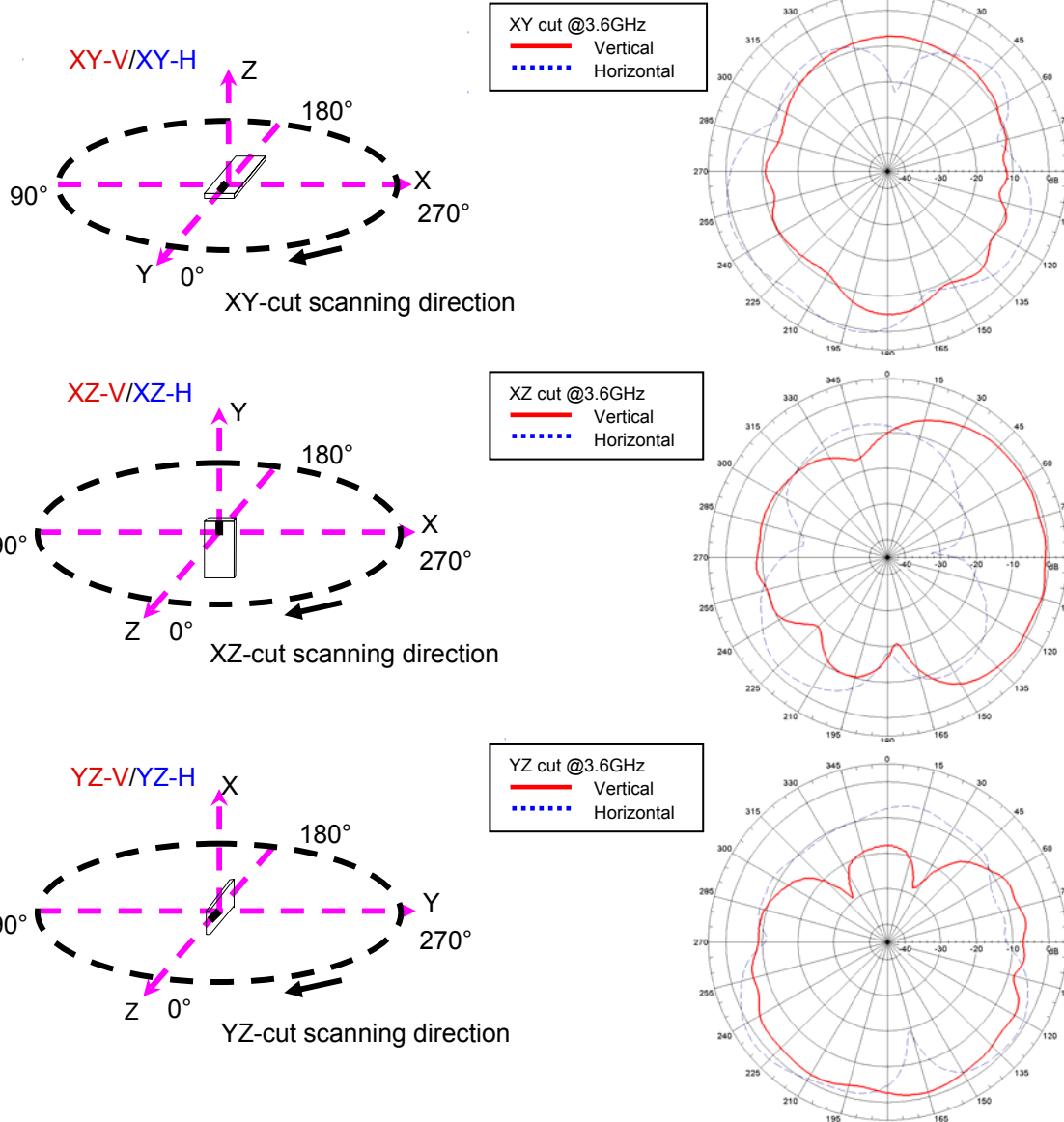
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 8 of 9

Ant2 Radiation Patterns



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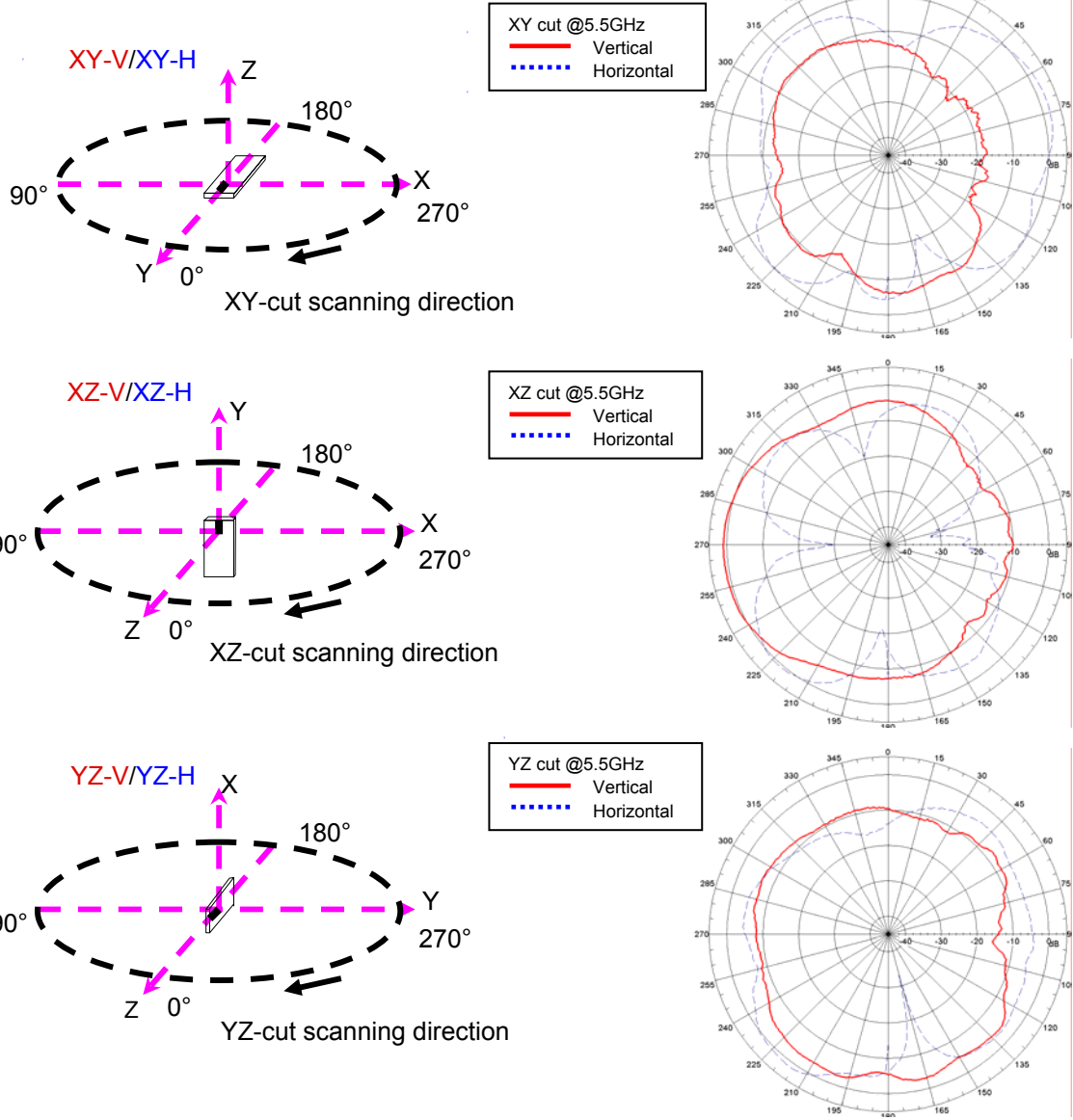
(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

Page 9 of 9

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