

High Frequency Ceramic Solutions

(Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

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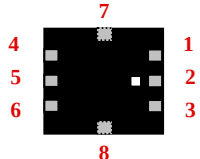
General Specifications

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

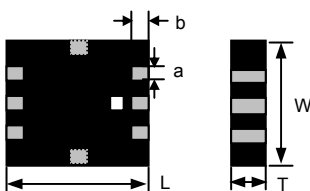
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2500AT52M3555S
		T & R	Suffix = E	Eg. 2500AT52M3555E
Termination Style		100% Tin	Suffix = None	Eg. 2500AT52M3555(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 2500AT52M3555(E or S)/Pb

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



Mechanical Dimensions

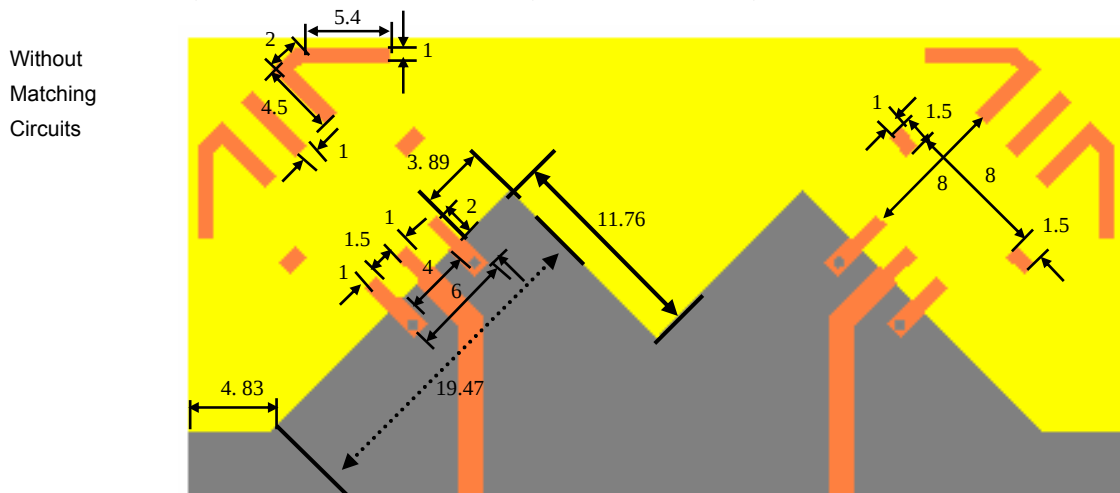
	In	mm
L	0.394 $\pm$ 0.012	10.00 $\pm$ 0.30
W	0.394 $\pm$ 0.012	10.00 $\pm$ 0.30
T	0.037 $\pm$ 0.010	0.95 $\pm$ 0.25
a	0.039 $\pm$ 0.012	1.00 $\pm$ 0.30
b	0.039 $\pm$ 0.012	1.00 $\pm$ 0.30



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.



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www.johansontechnology.com

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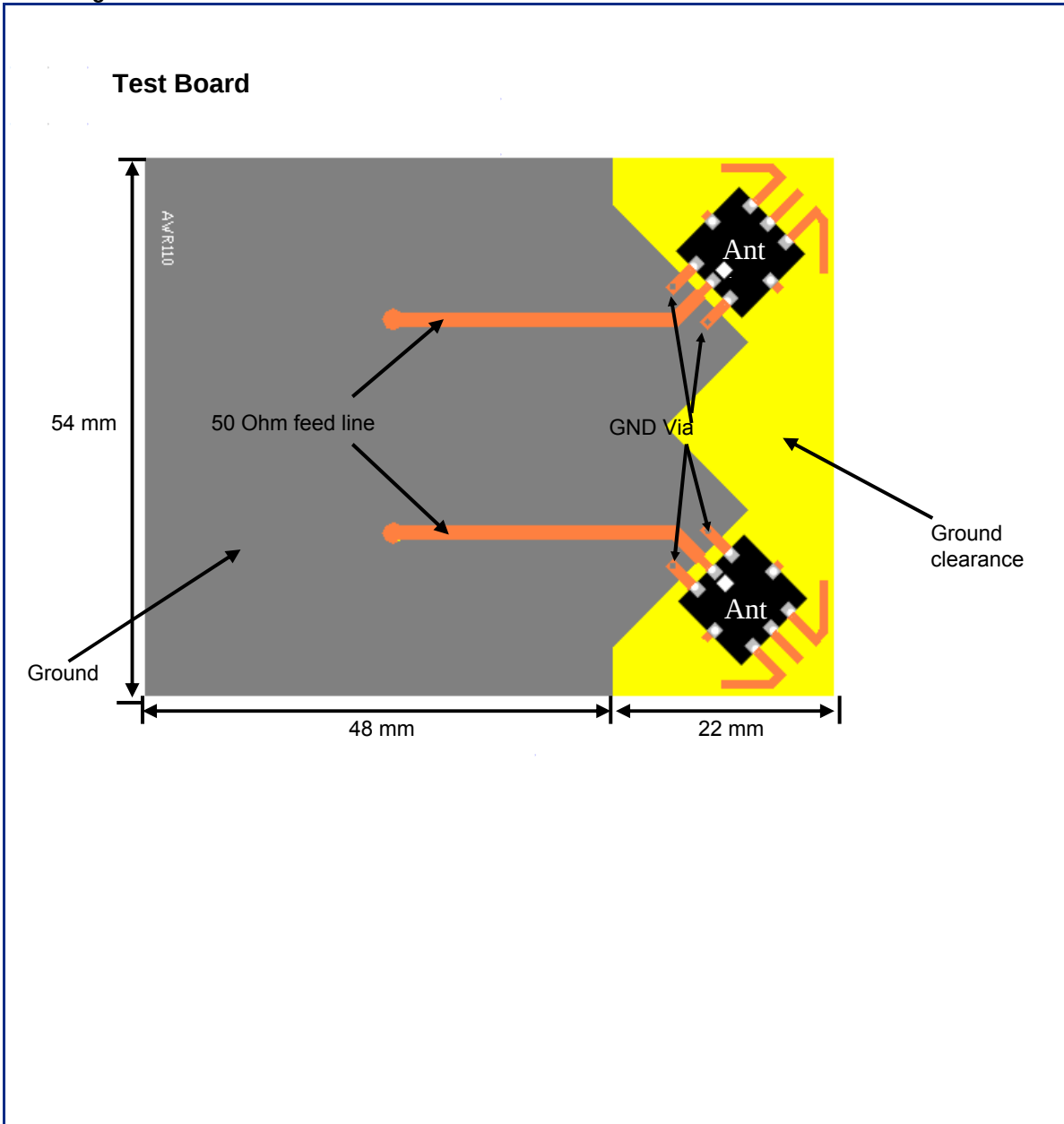
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Mounting Considerations



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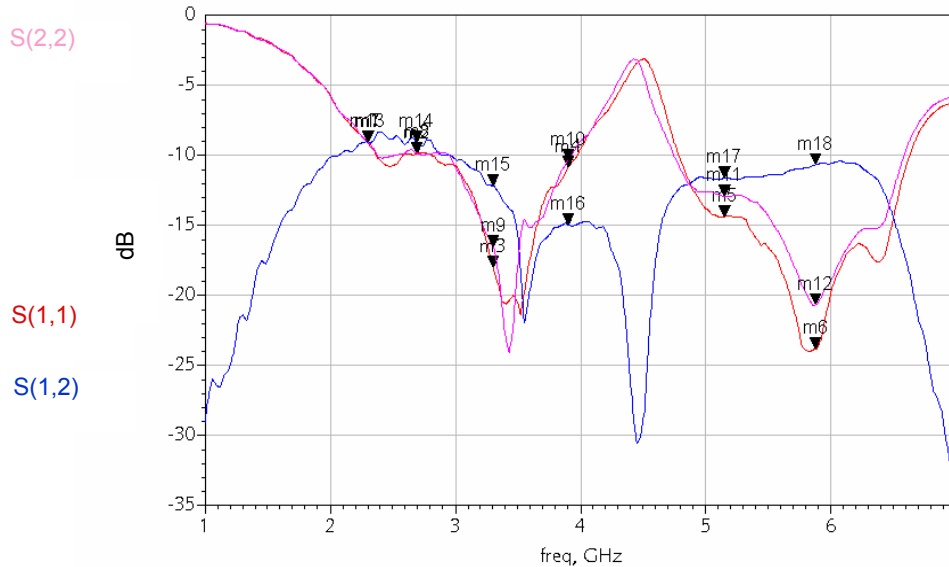
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Mounting Considerations

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

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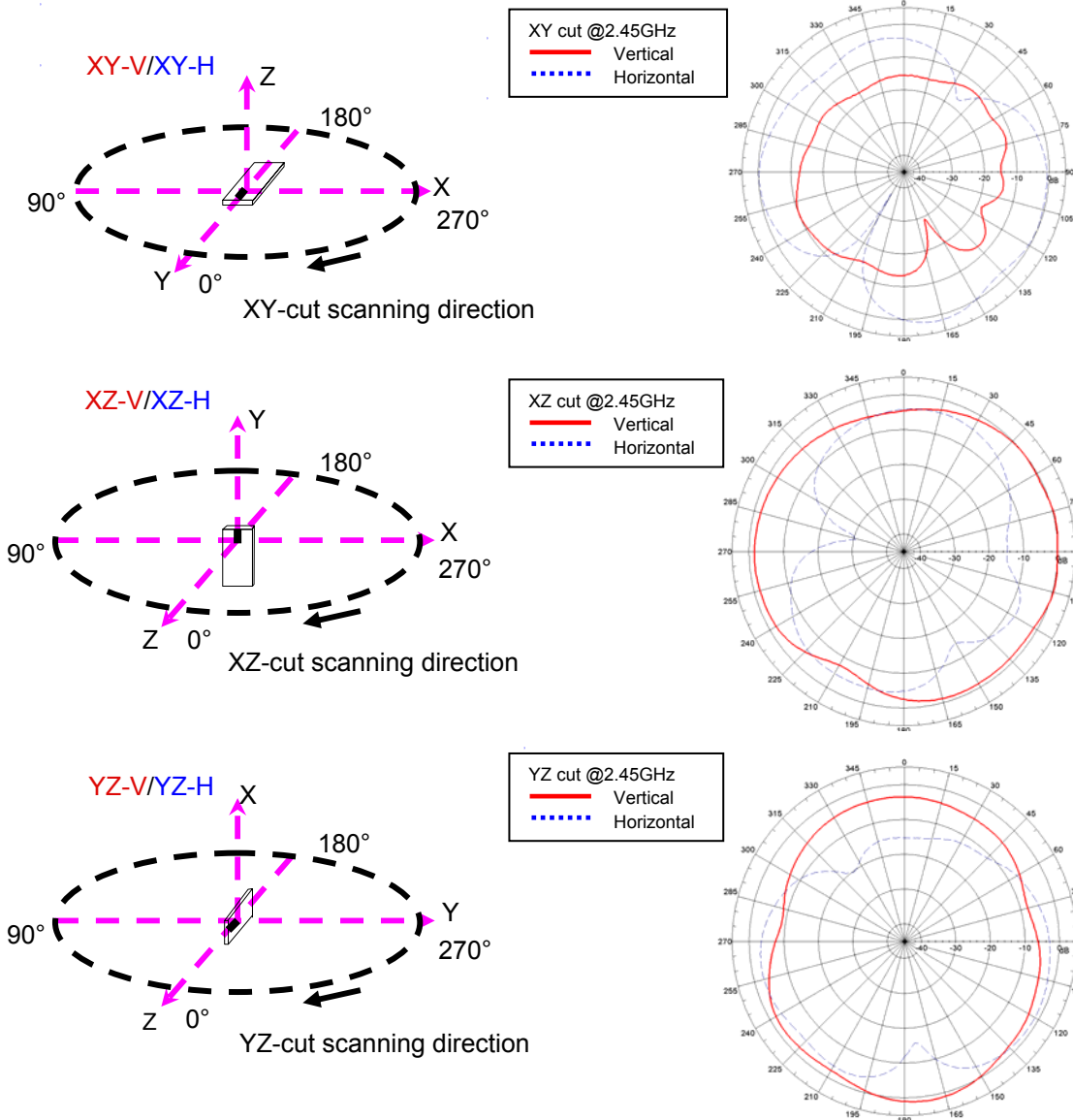
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Ant1 Radiation Patterns



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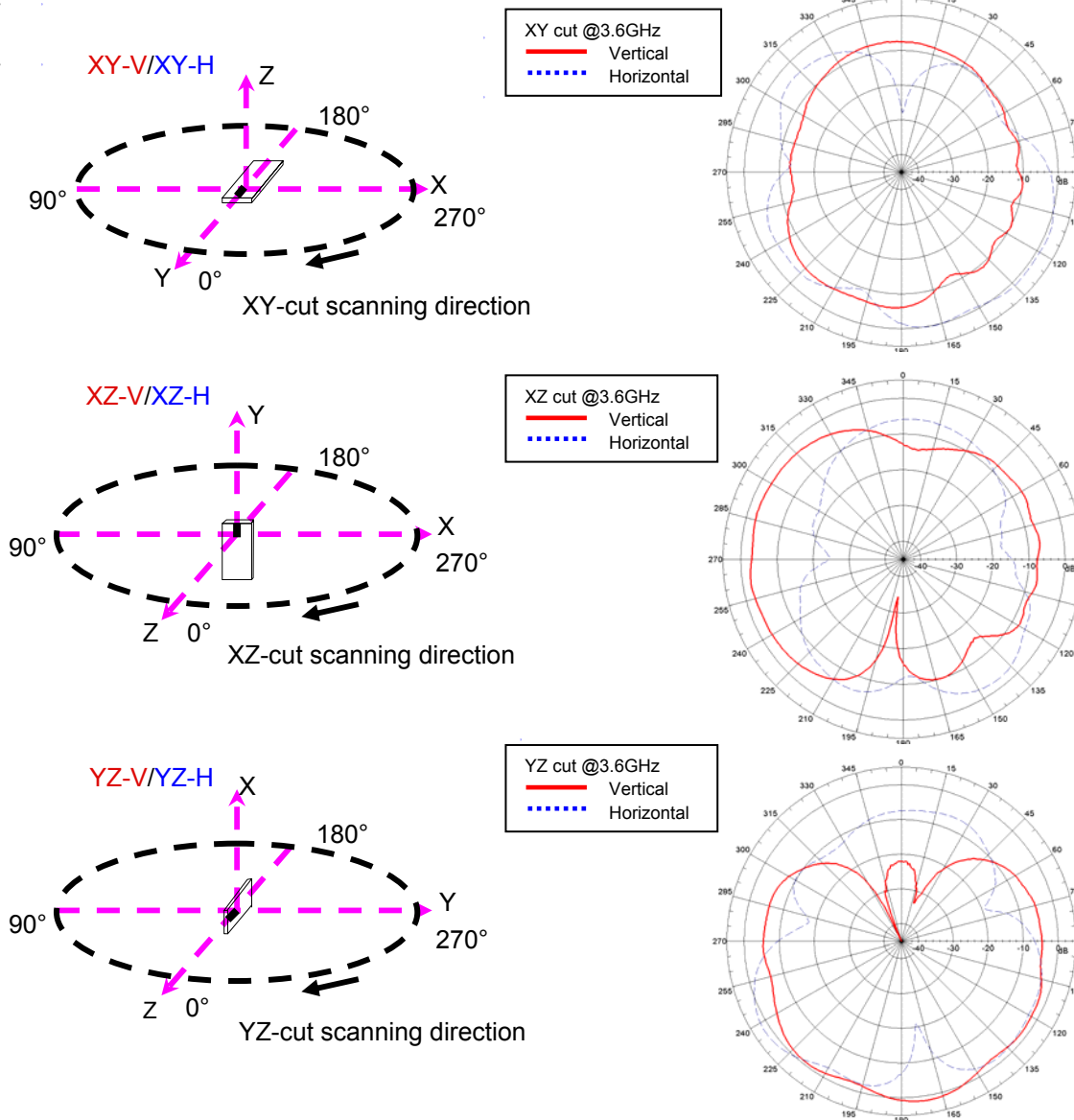
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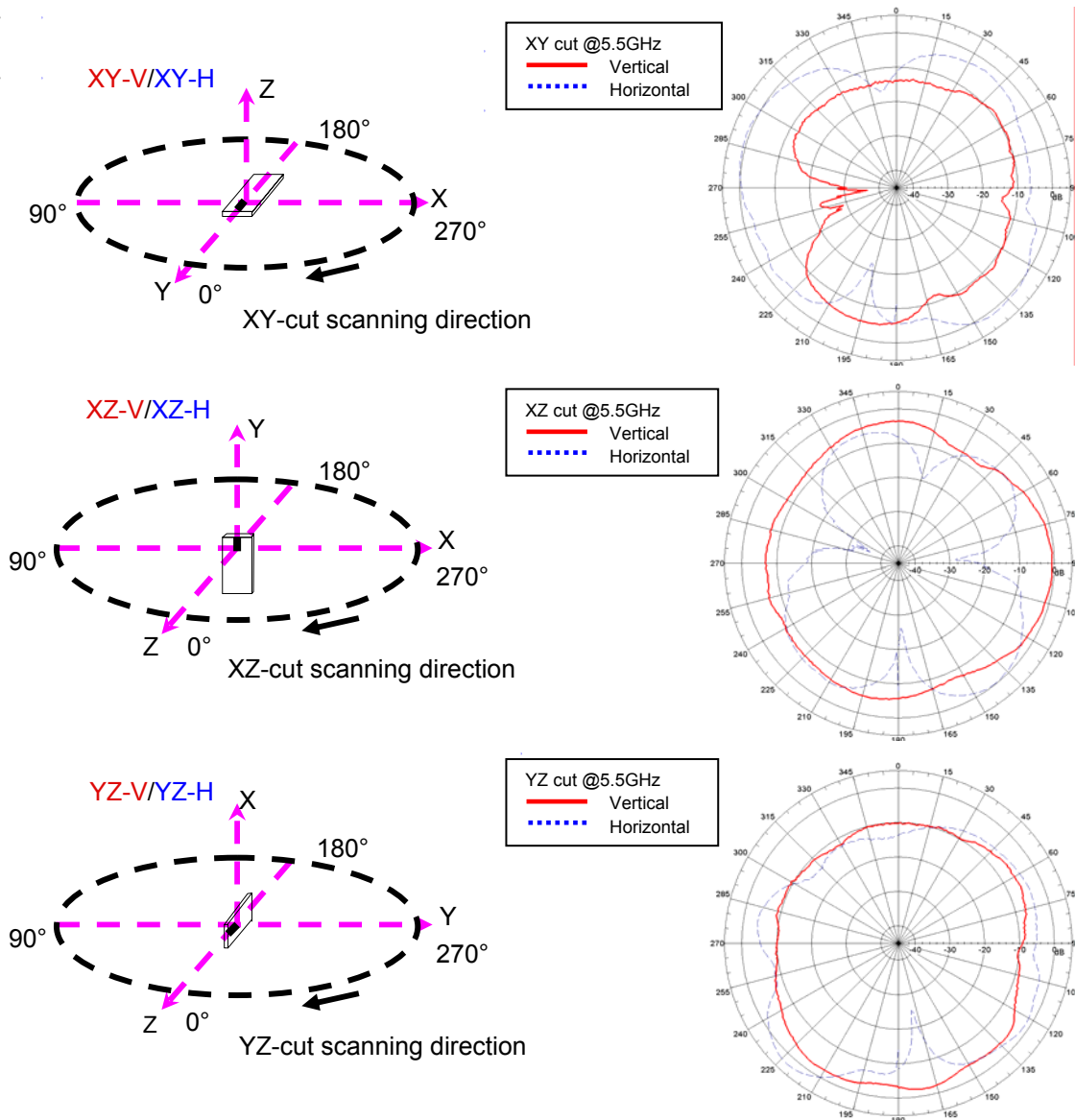
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Ant1 Radiation Patterns



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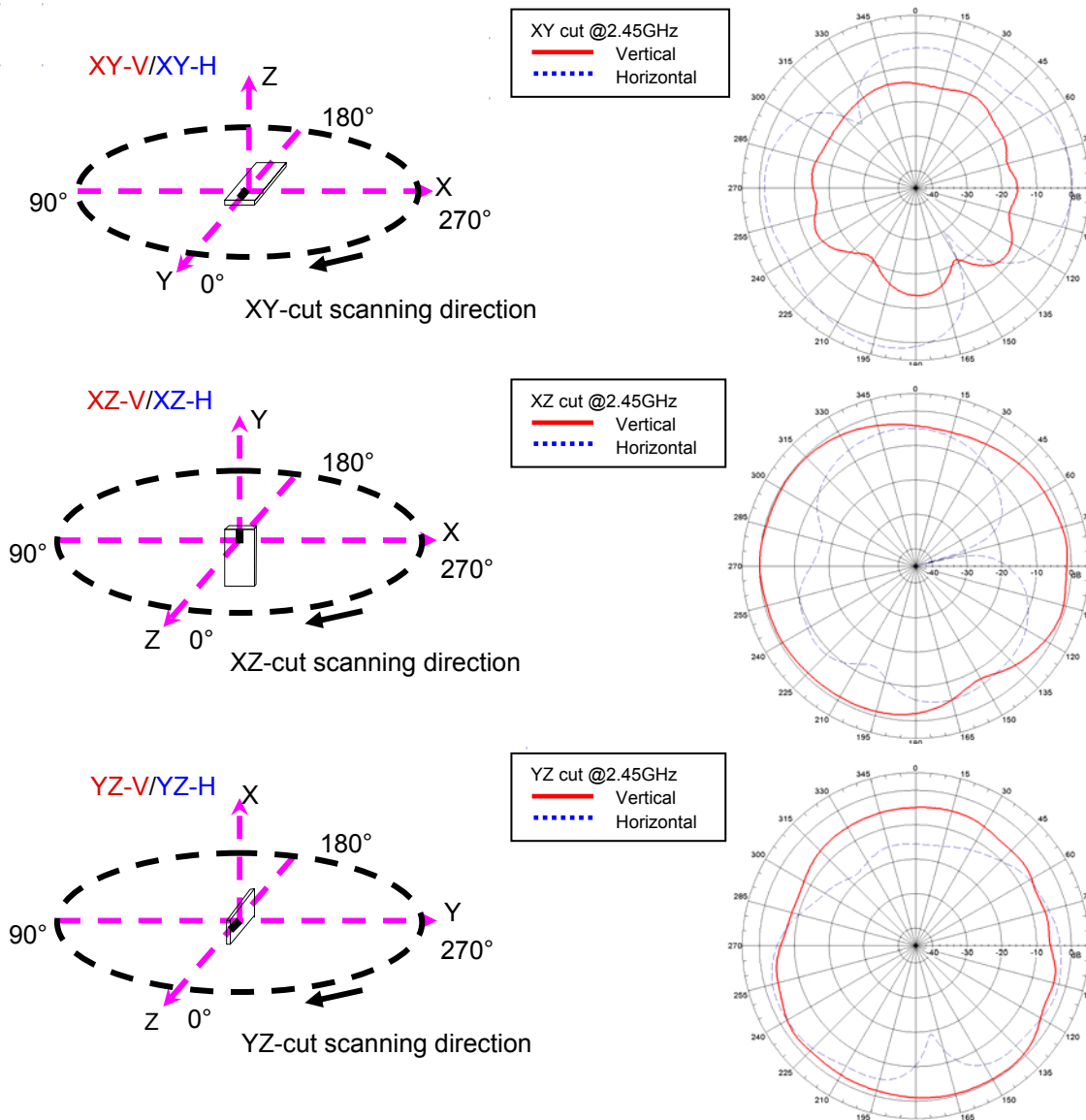
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Ant2 Radiation Patterns



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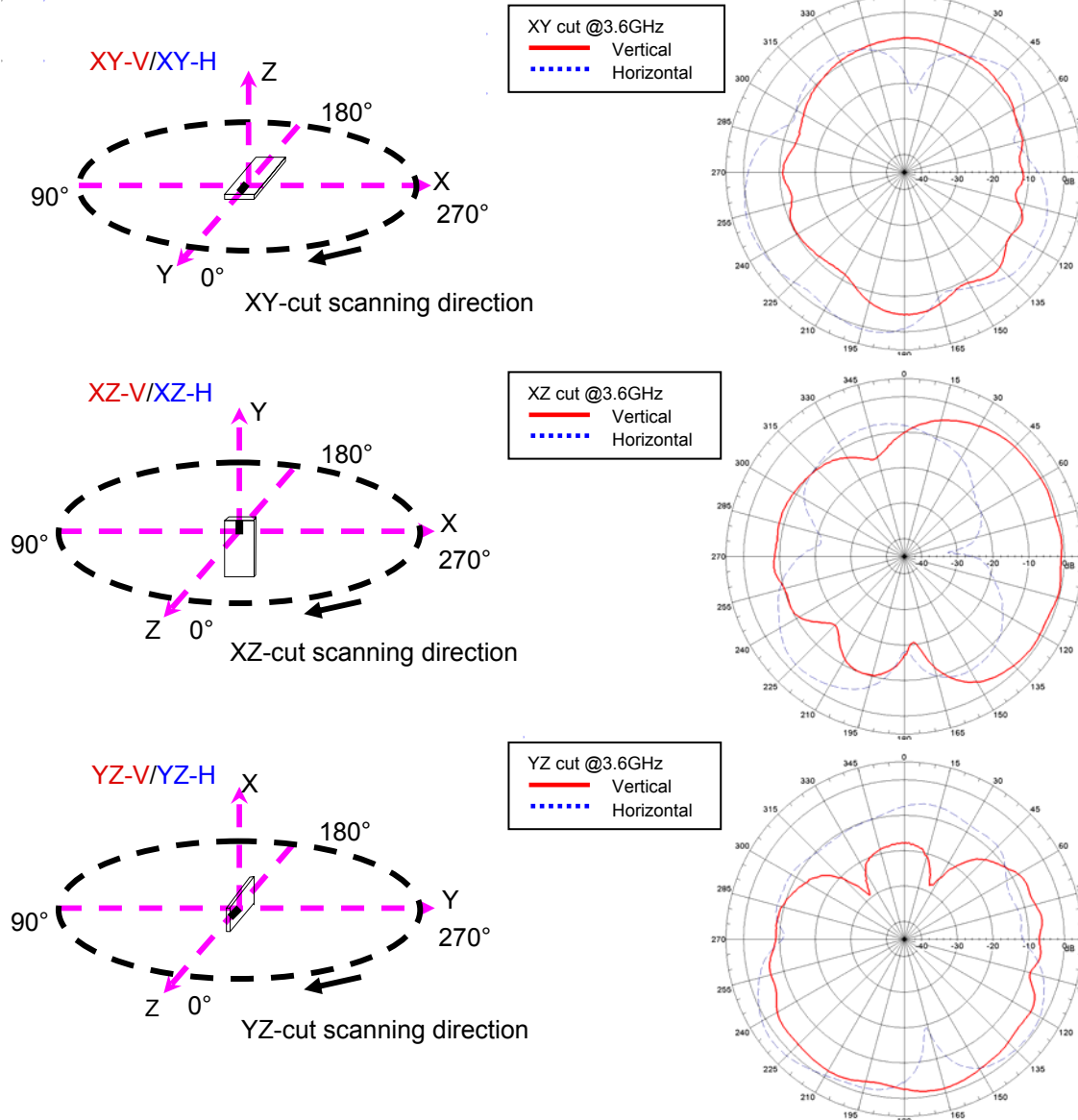
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Ant2 Radiation Patterns



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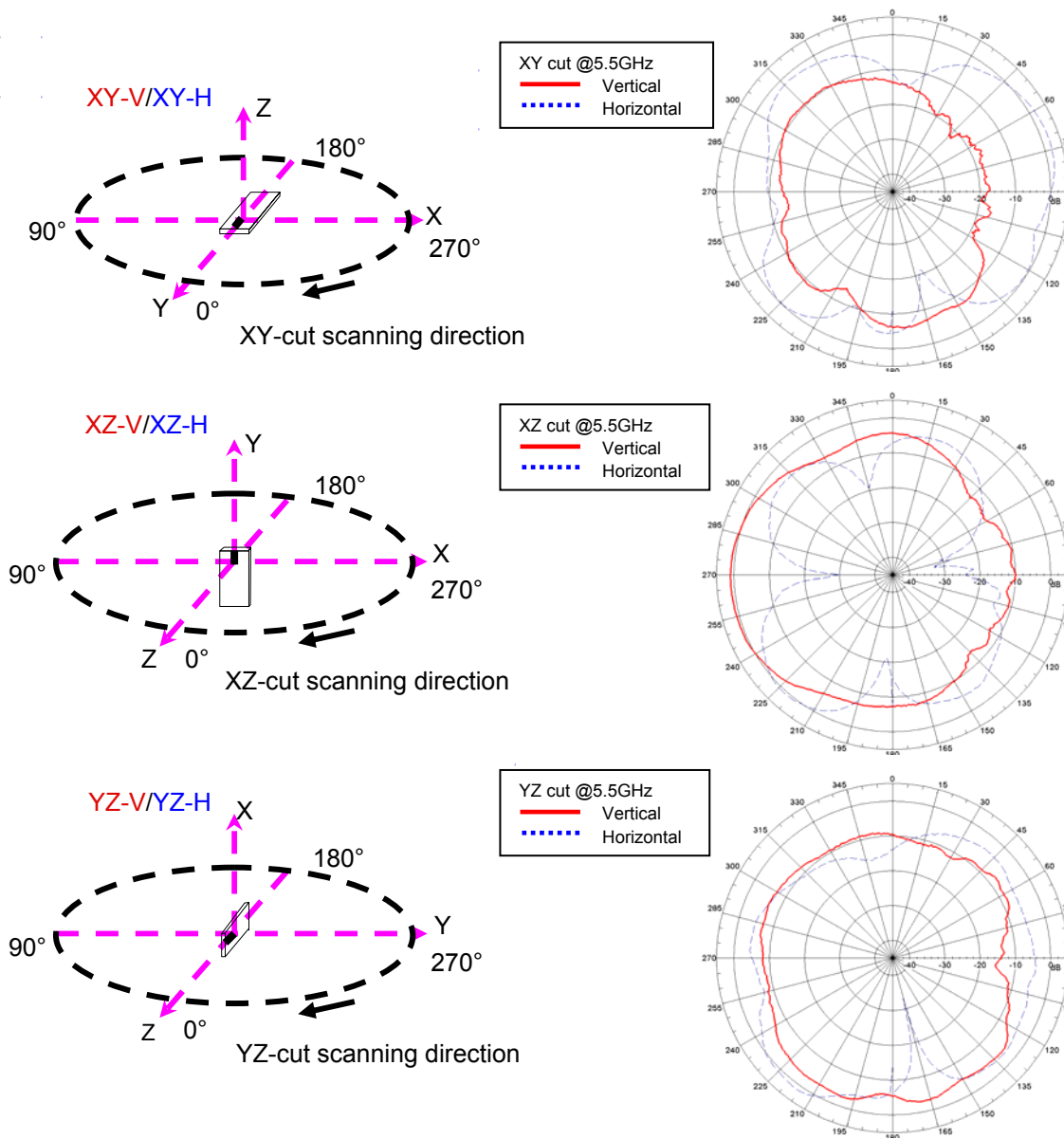
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