

# High Frequency Ceramic Solutions

## (Tri-Band) WiMax Antenna

P/N 2500AT52M3555

Detail Specification: 08/11/06

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### General Specifications

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

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

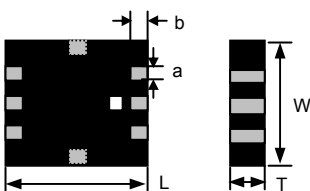
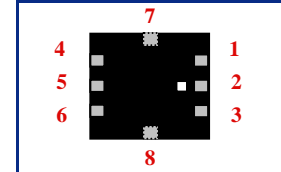
<b>P/N Suffix</b>	<b>Packaging Style</b>	Bulk	Suffix = S	Eg. 2500AT52M3555S
		T & R	Suffix = E	Eg. 2500AT52M3555E
<b>Termination Style</b>		100% Tin	Suffix = None	Eg. 2500AT52M3555(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 2500AT52M3555(E or S)/Pb

### Terminal Configuration

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

### Mechanical Dimensions

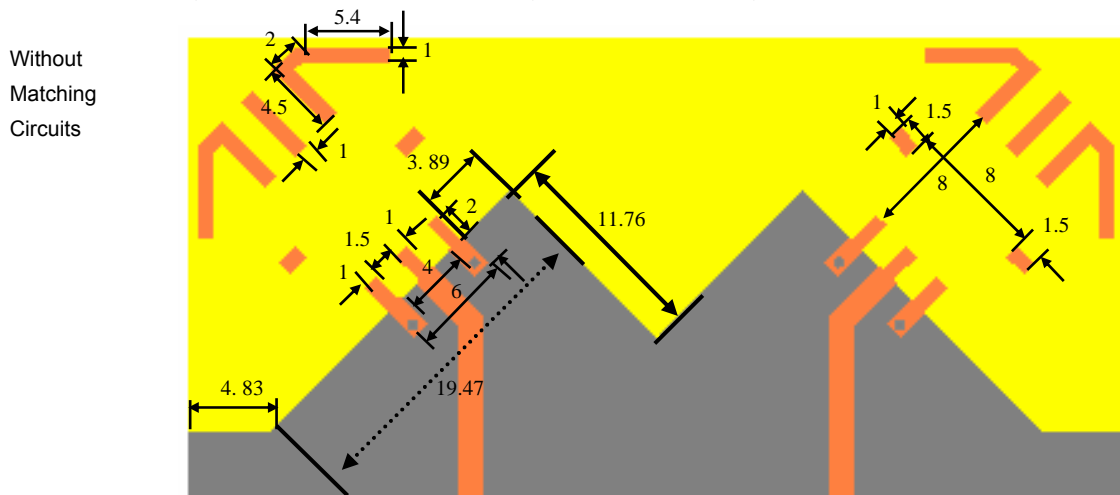
	In	mm
<b>L</b>	0.394 ± 0.012	10.00 ± 0.30
<b>W</b>	0.394 ± 0.012	10.00 ± 0.30
<b>T</b>	0.037 ± 0.010	0.95 ± 0.25
<b>a</b>	0.039 ± 0.012	1.00 ± 0.30
<b>b</b>	0.039 ± 0.012	1.00 ± 0.30

### 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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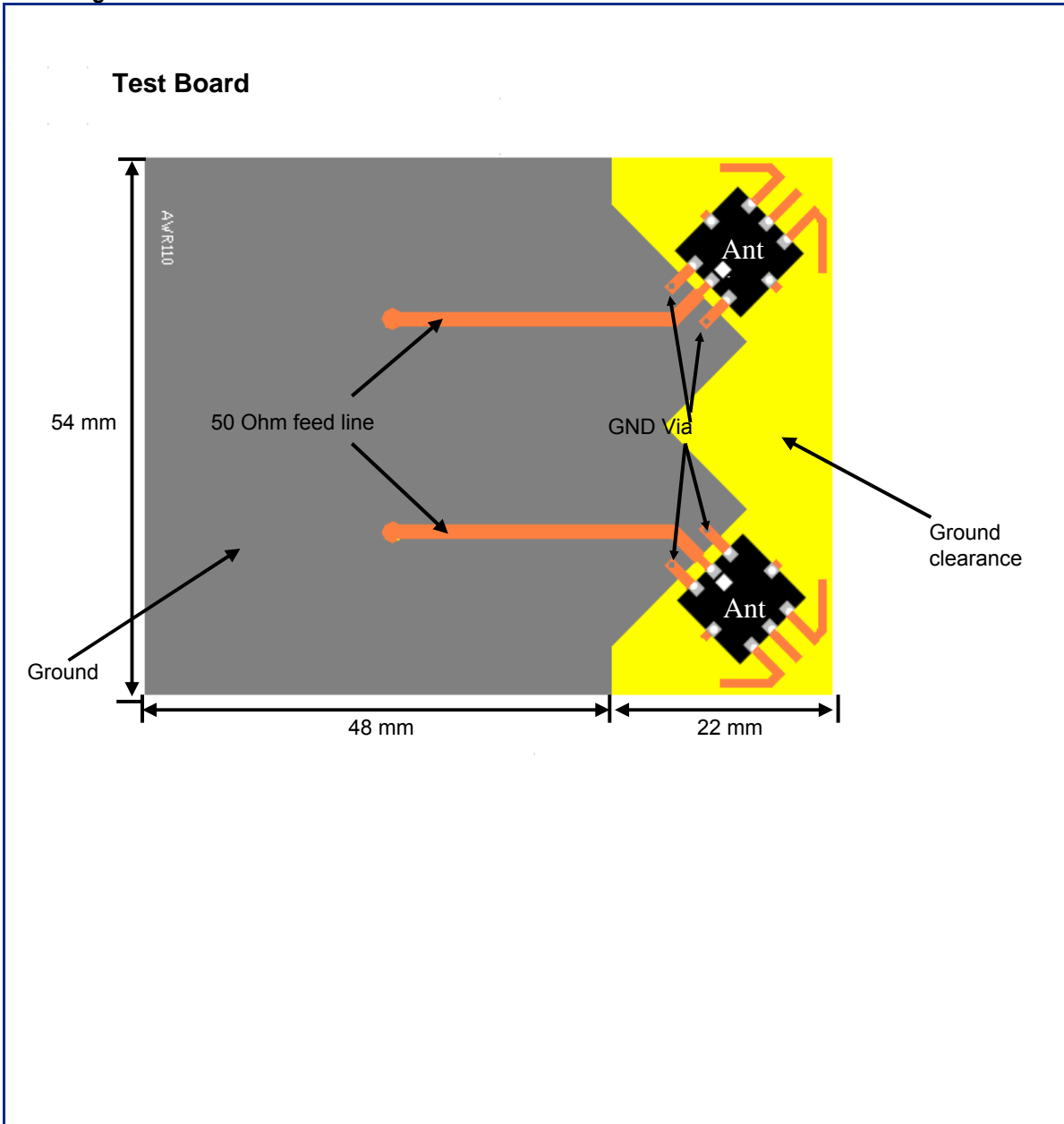
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## Mounting Considerations



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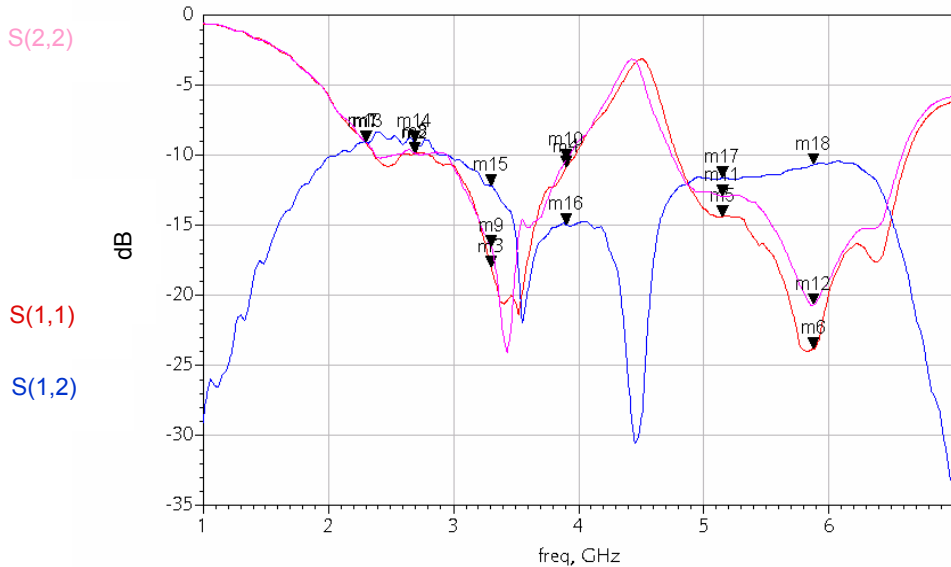
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## Mounting Considerations

### 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
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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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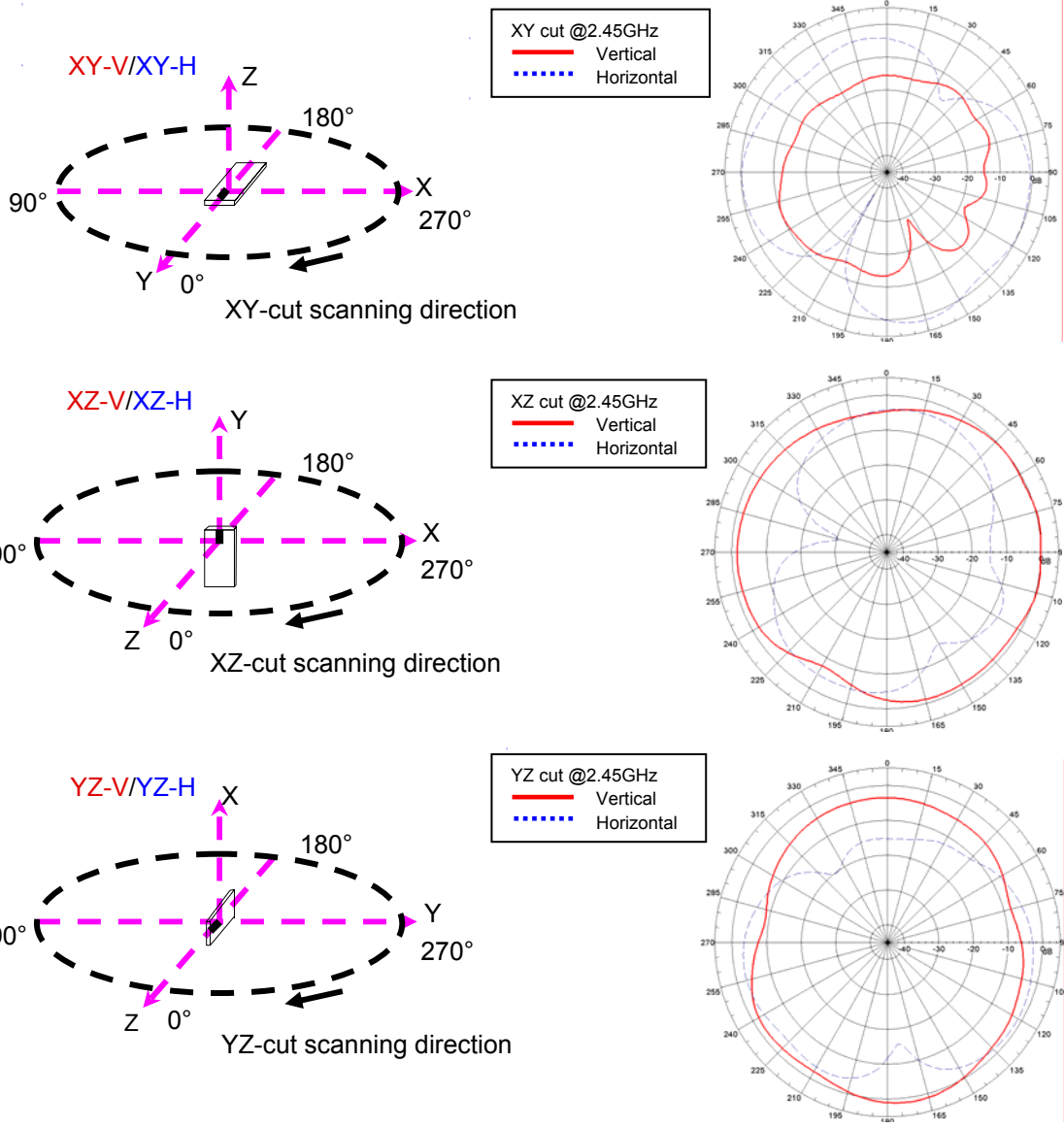
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## Ant1 Radiation Patterns



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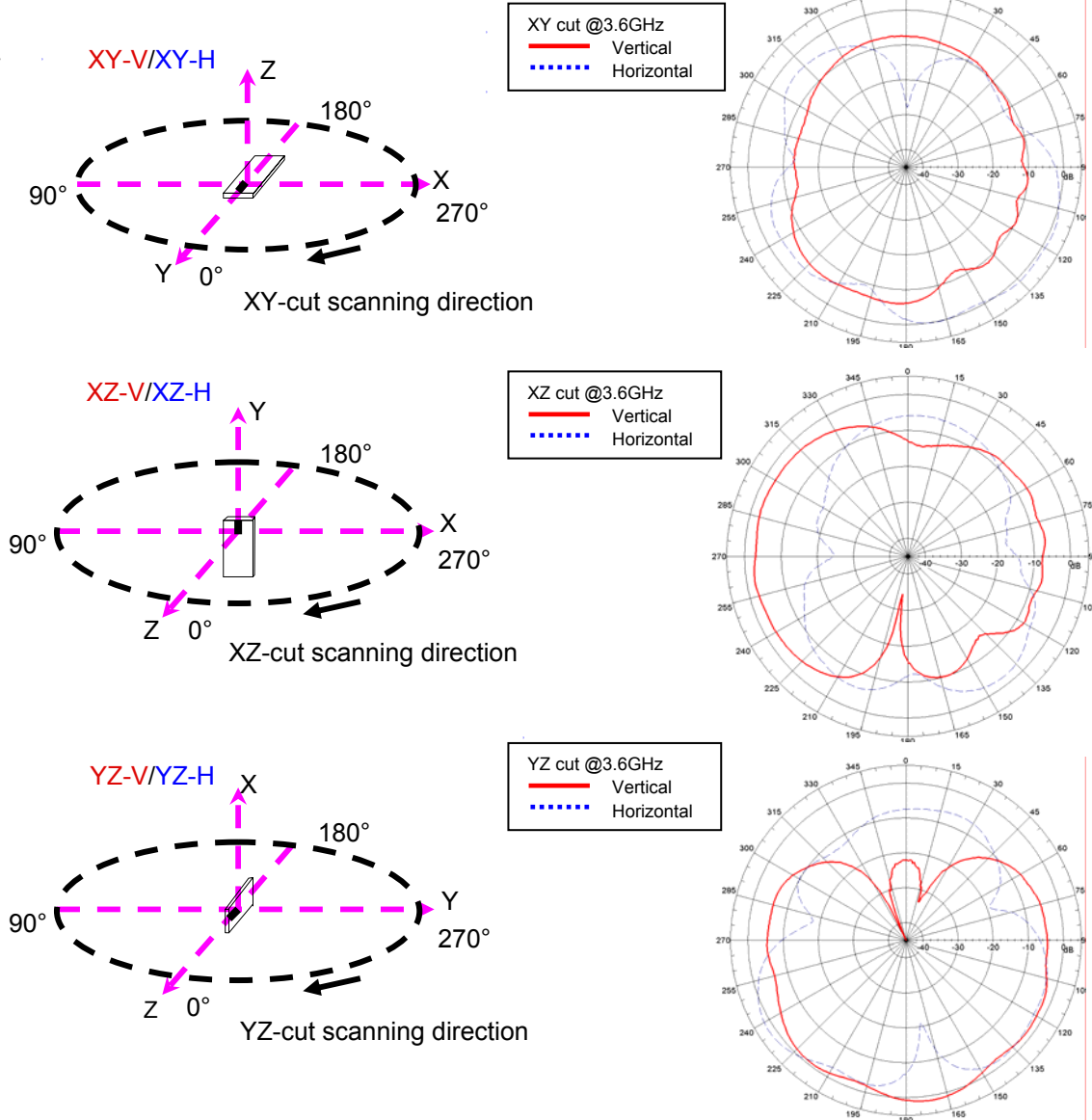
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## Ant1 Radiation Patterns



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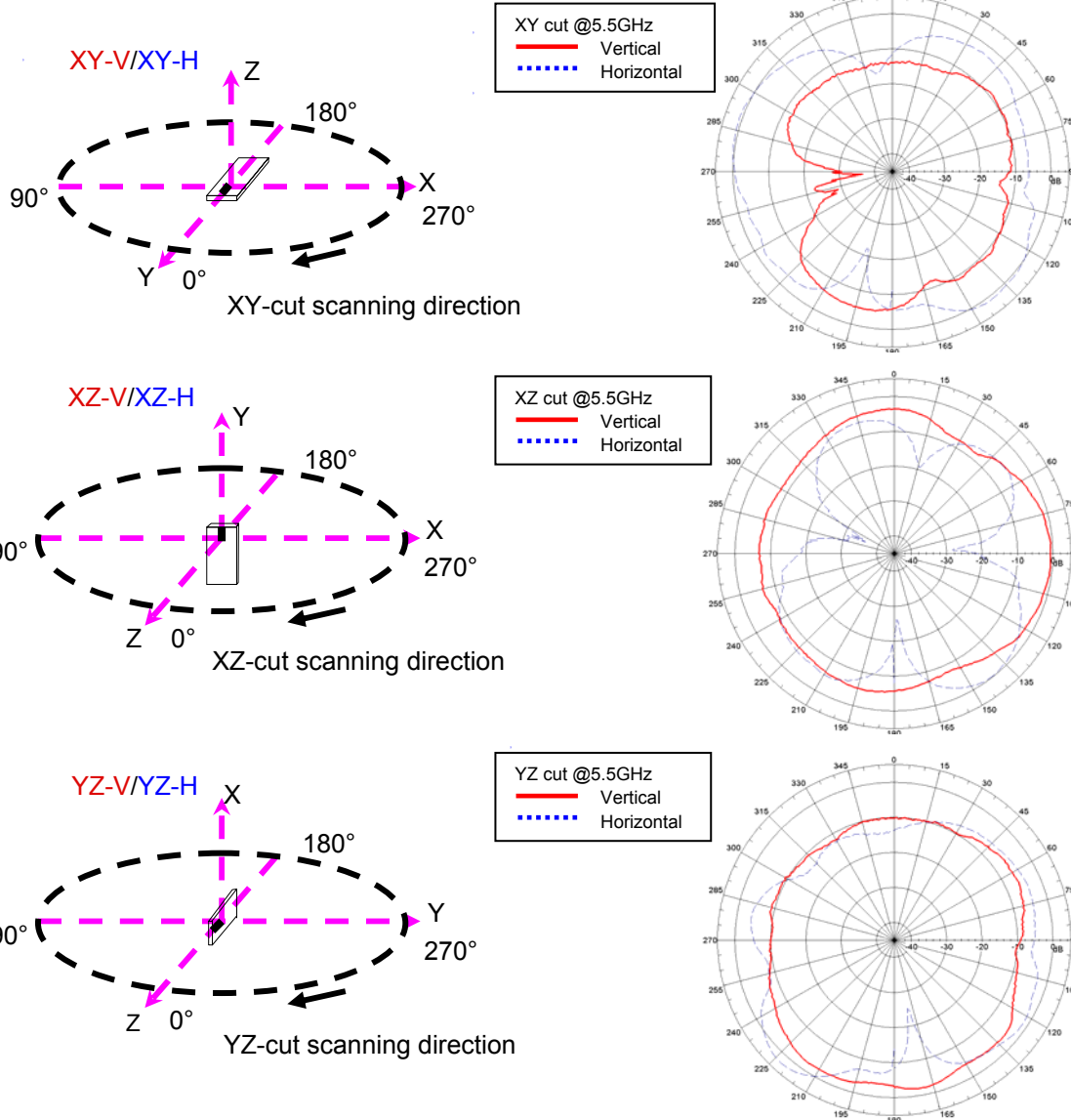
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## Ant1 Radiation Patterns



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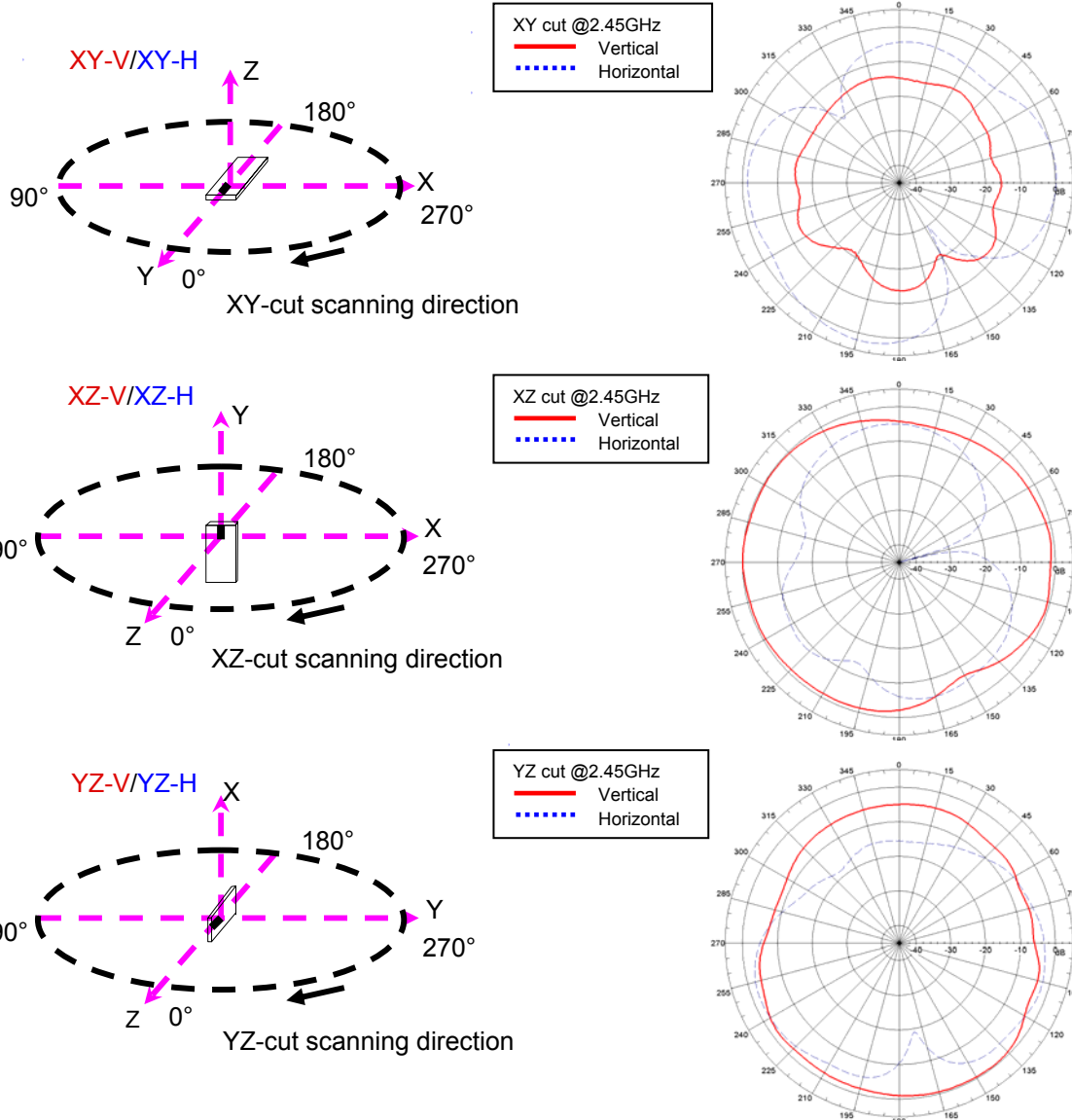
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## Ant2 Radiation Patterns



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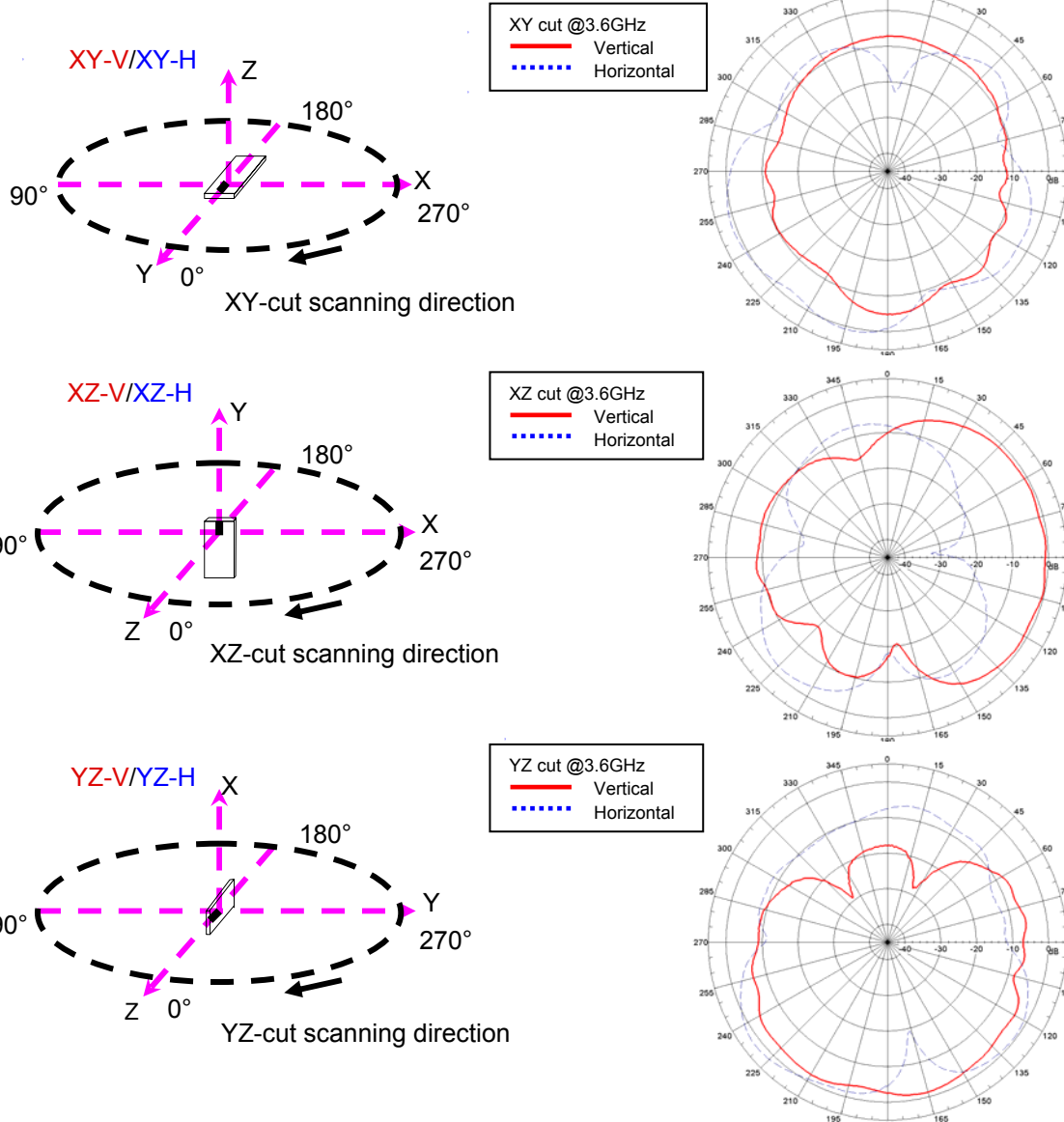
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## Ant2 Radiation Patterns



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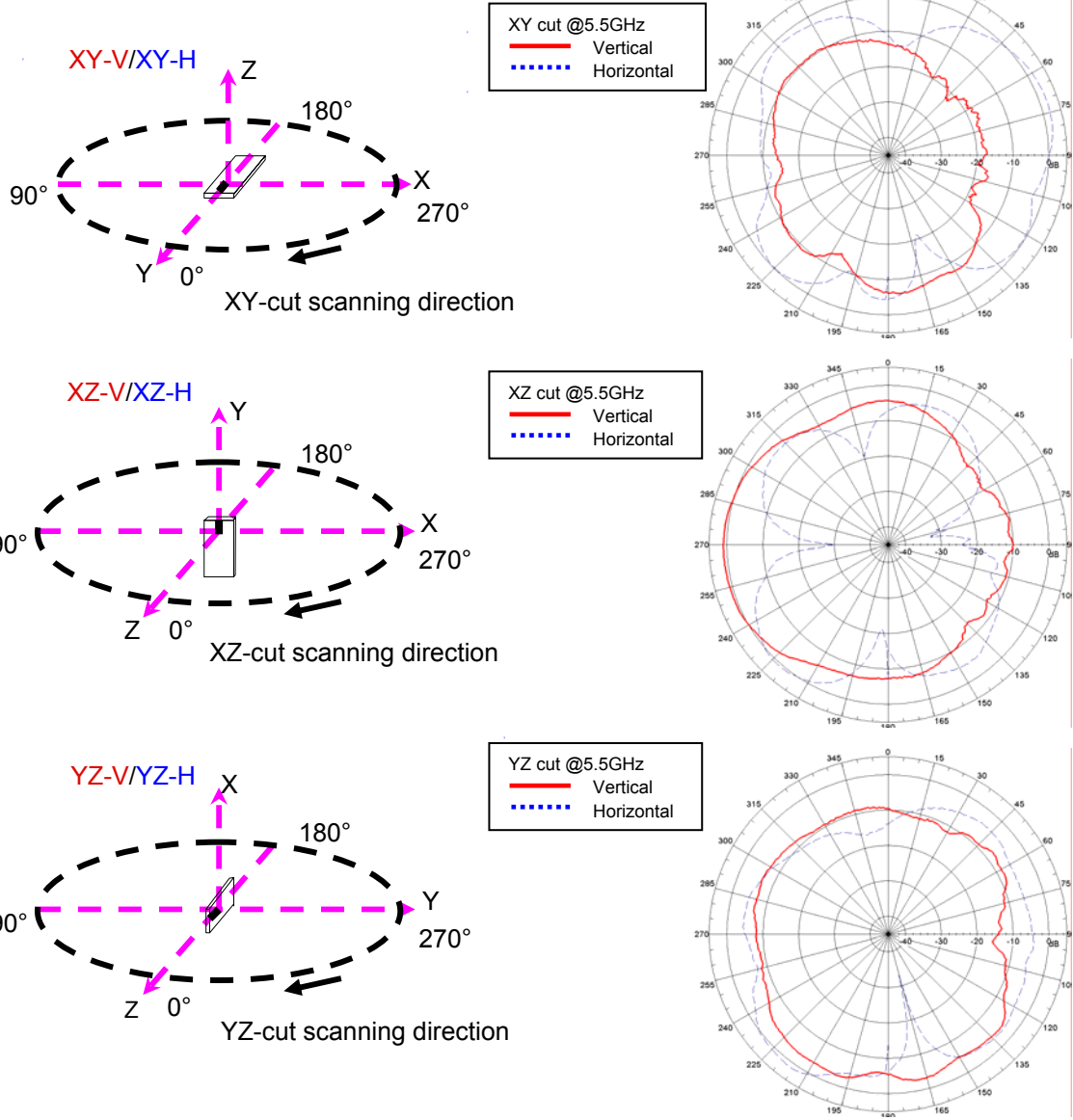
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## Ant2 Radiation Patterns



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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;
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- Экспресс доставка в любую точку России;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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