High Frequency Ceramic Solutions

(Tri-Band) WiMax Antenna **P/N 2500AT52M3555**

Detail Specification: 08/11/06

General Specifications

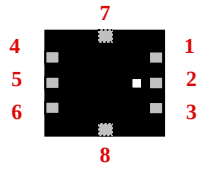
Part Number	2500AT52M3555		
Freq. Range (GHz)	2.3 - 2.69	3.3 - 3.9	5.15 - 5.875
Peak Gain (XZ-V)	2.0 dBi typ.	2.0 dBi typ.	2.0 dBi typ.
Average Gain (XZ-V)	-2.0 dBi typ.	-4.0 dBi typ.	-3.0 dBi typ.
Return Loss	8.5 dB min.	9.5 dB min.	9.5 dB min.

Input Power	5W max.
Impedance	50 Ω
Operating Temp.	-40 to +85°C
Reel Quanity	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

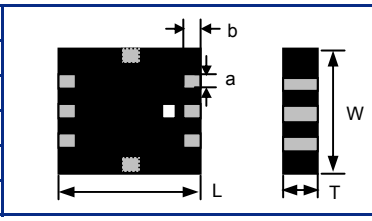
Terminal Configuration

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

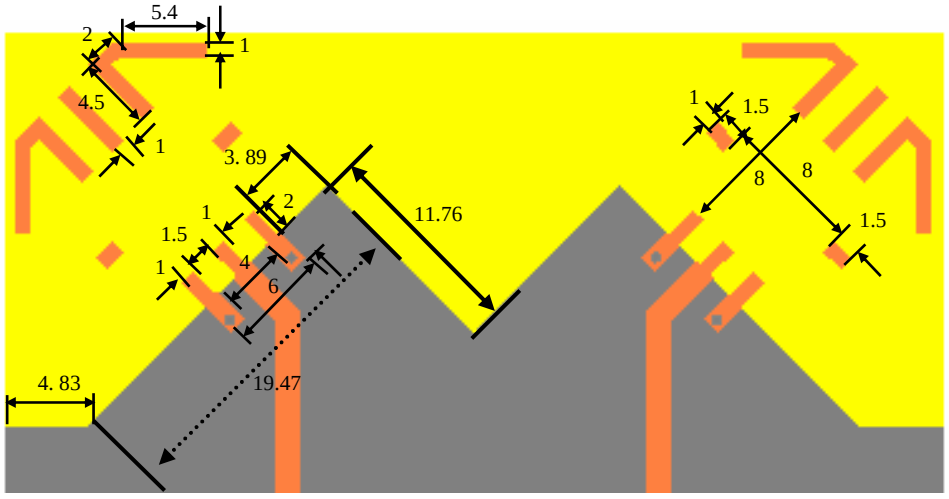


Mounting Considerations

Mount these devices with white mark facing up. Units: mm

* Line width should be designed to provide 50 Ω impedance matching characteristics, depending on PCB material and thickness.

Without Matching Circuits



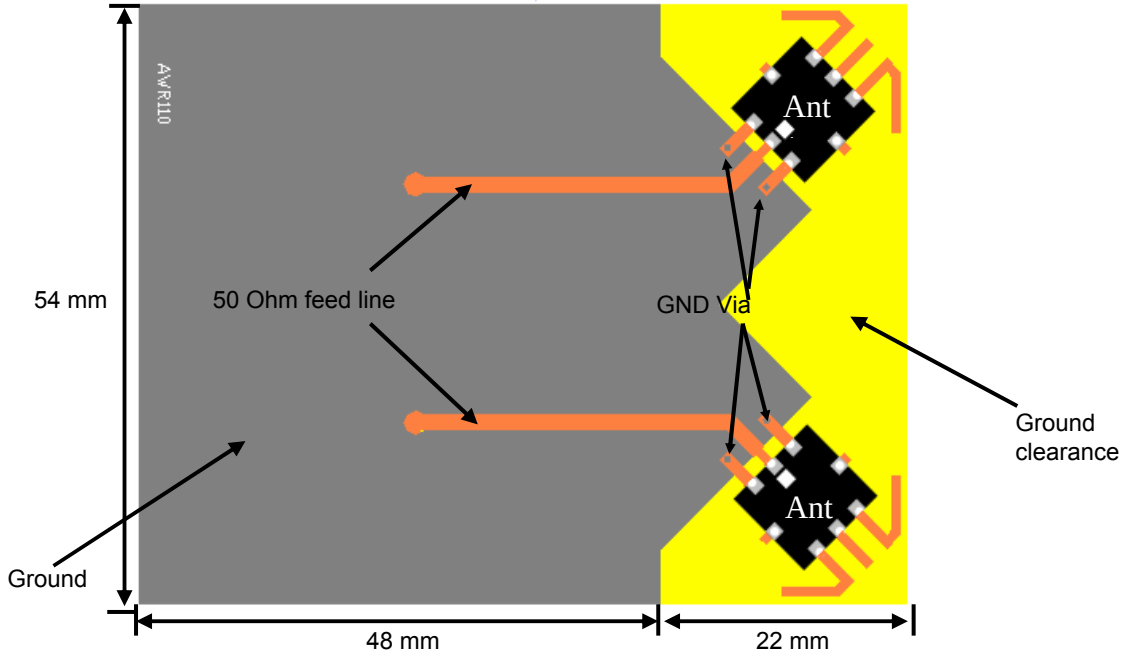
JOHANSON TECHNOLOGY

www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

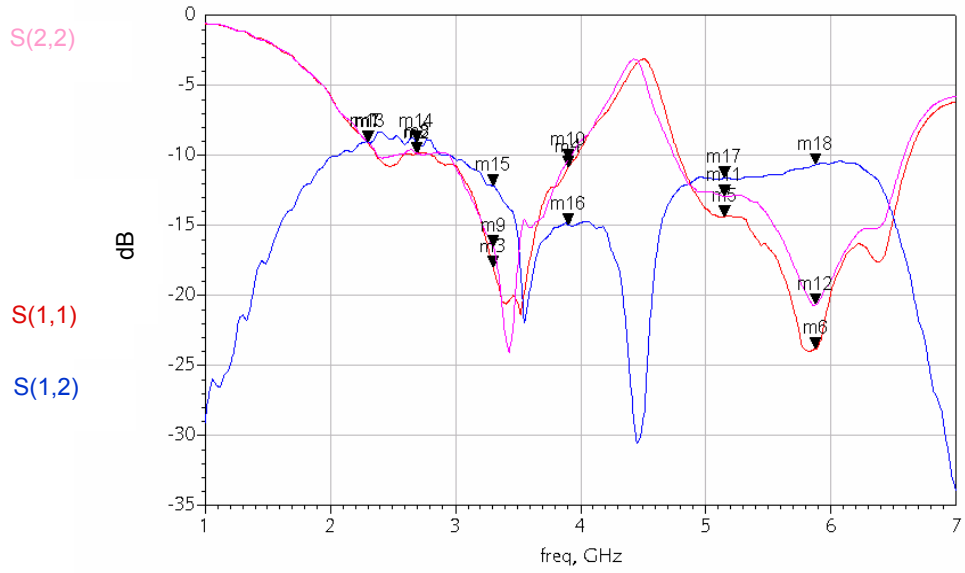
Mounting Considerations

Test Board



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)

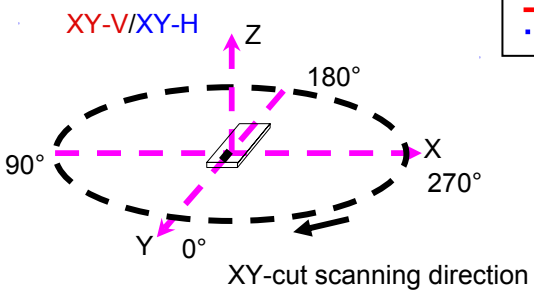
m1 freq = 2.300GHz dB(S(1,1)) = -9.072	m7 freq=2.300GHz dB(S(2,2))=-9.065	m13 freq=2.300GHz dB(S(1,2))=-9.068
m2 freq = 2.690GHz dB(S(1,1)) = -9.901	m8 freq=2.690GHz dB(S(2,2))=-9.849	m14 freq=2.690GHz dB(S(1,2))=-9.085
m3 freq = 3.300GHz dB(S(1,1)) = -18.019	m9 freq=3.300GHz dB(S(2,2))=-16.521	m15 freq=3.300GHz 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

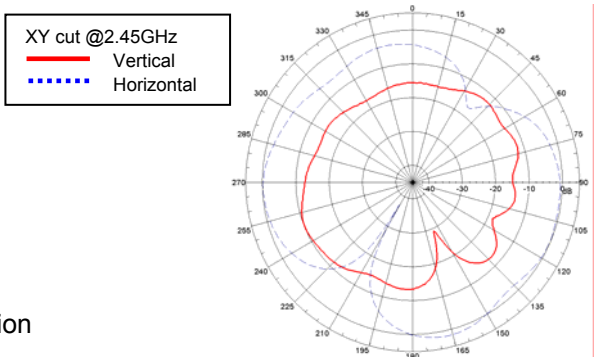
www.johansontechnology.com

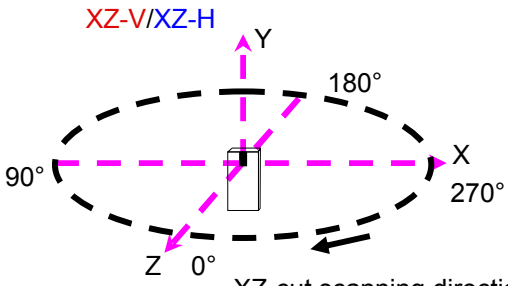
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ant1 Radiation Patterns

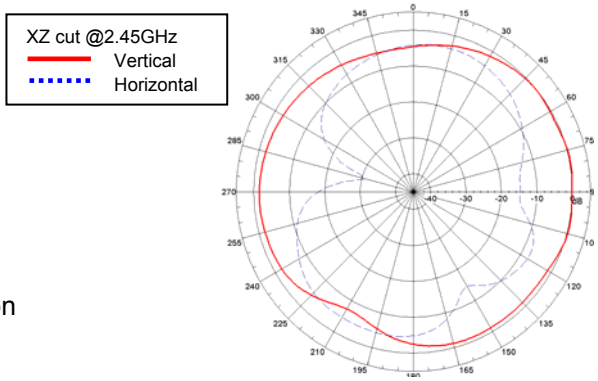


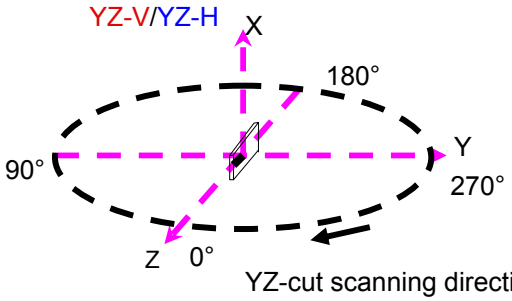
XY-cut scanning direction



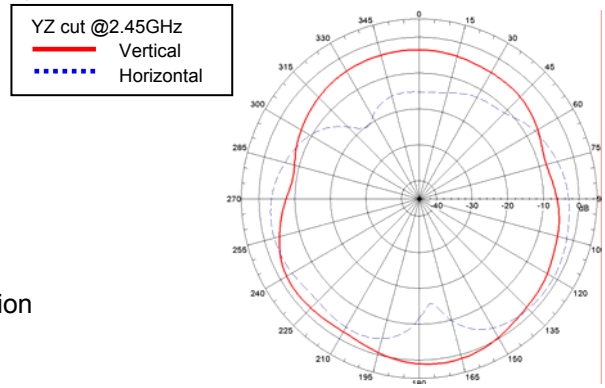


XZ-cut scanning direction





YZ-cut scanning direction

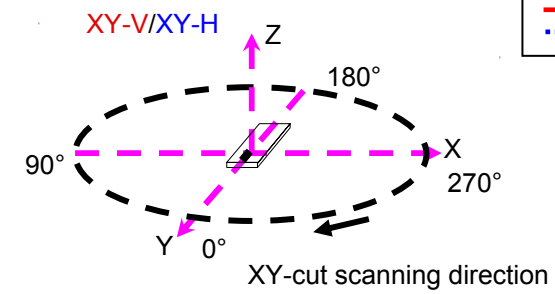


JOHANSON TECHNOLOGY

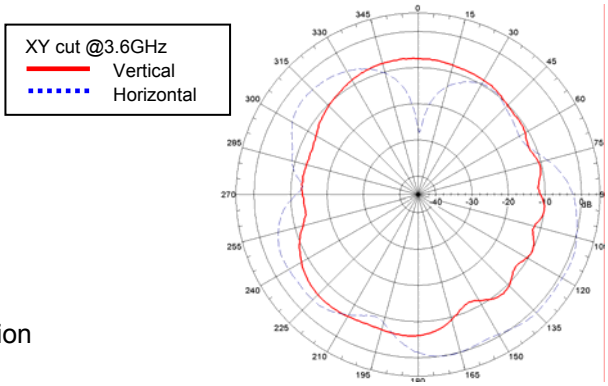
www.johansontechnology.com

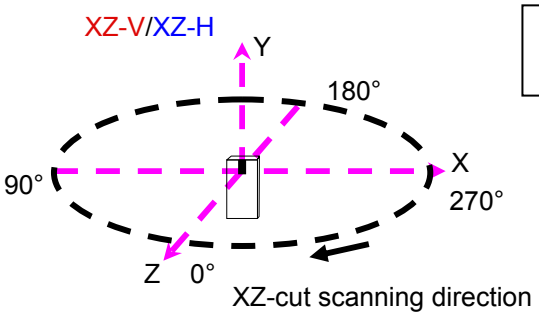
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ant1 Radiation Patterns

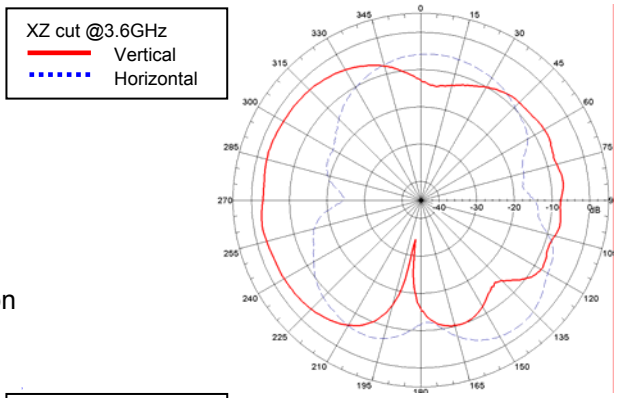


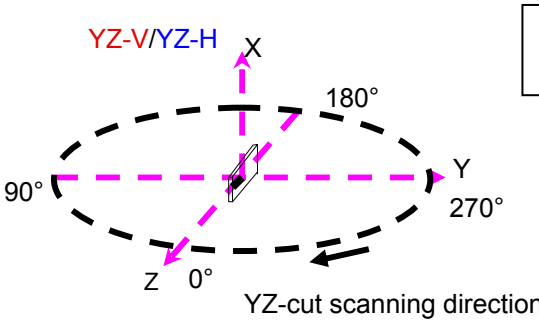
XY-cut scanning direction



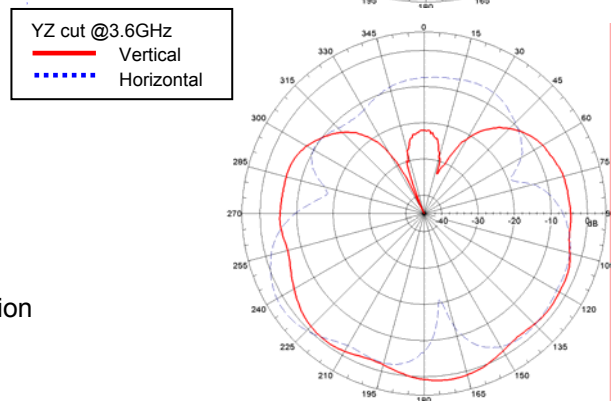


XZ-cut scanning direction





YZ-cut scanning direction

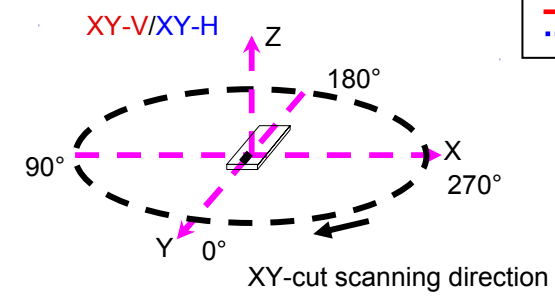


JOHANSON TECHNOLOGY

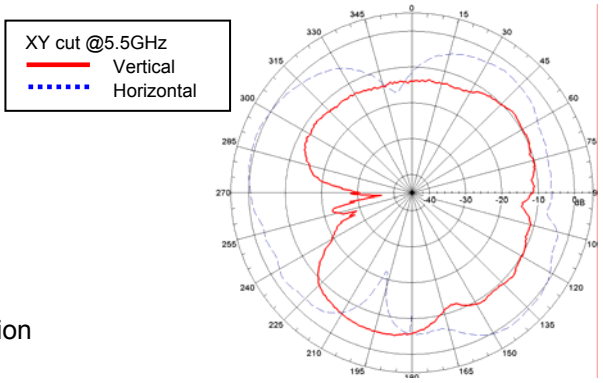
www.johansontechnology.com

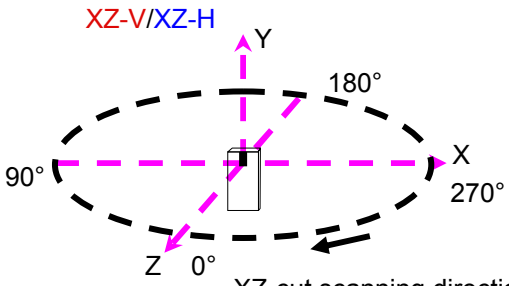
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ant1 Radiation Patterns

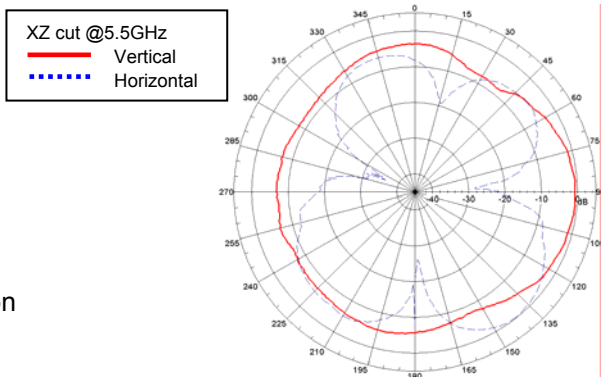


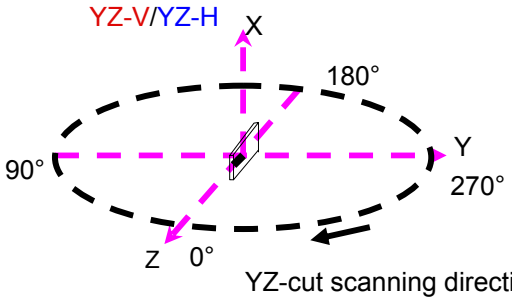
XY-cut scanning direction



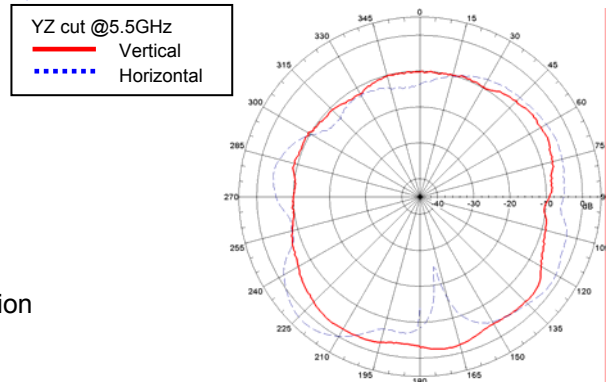


XZ-cut scanning direction





YZ-cut scanning direction

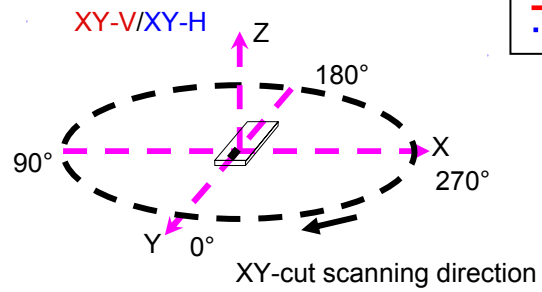


JOHANSON TECHNOLOGY

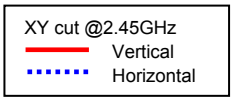
www.johansontechnology.com

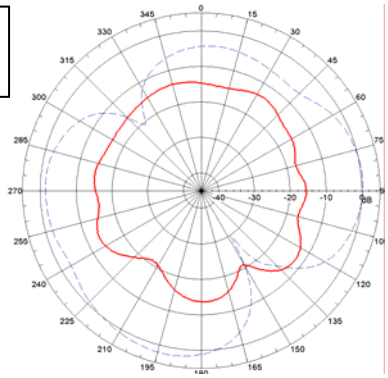
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

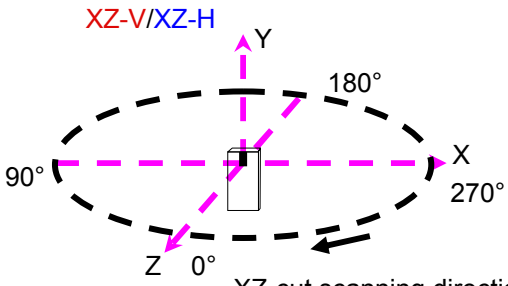
Ant2 Radiation Patterns



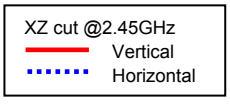
XY-cut scanning direction

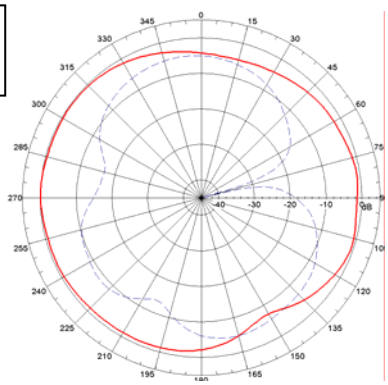


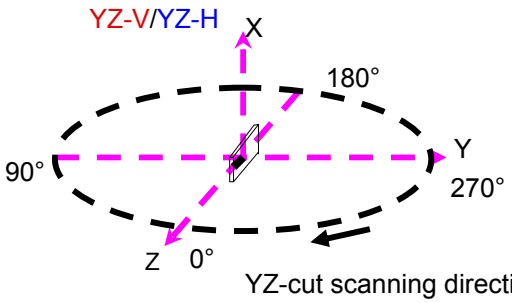




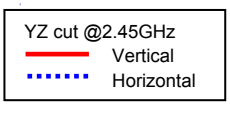
XZ-cut scanning direction

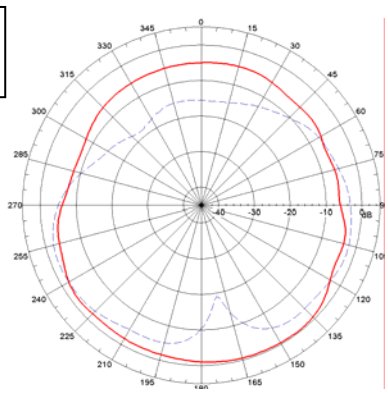






YZ-cut scanning direction



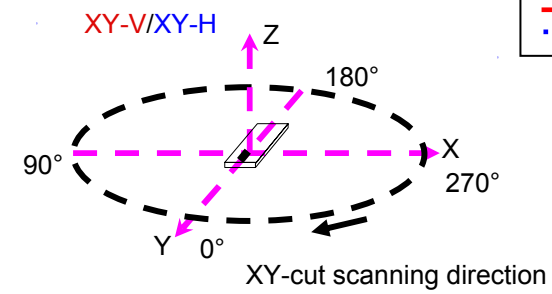


JOHANSON TECHNOLOGY

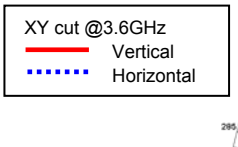
www.johansontechnology.com

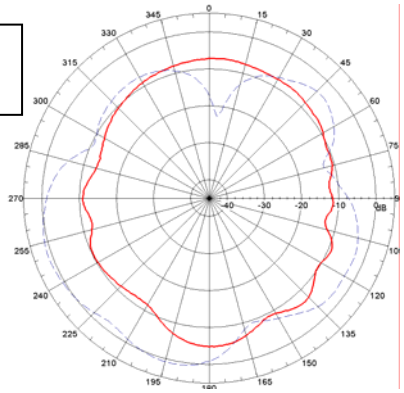
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

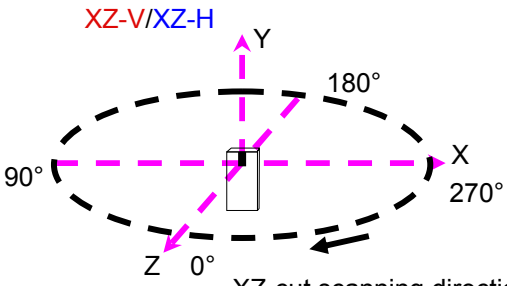
Ant2 Radiation Patterns



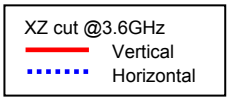
XY-cut scanning direction

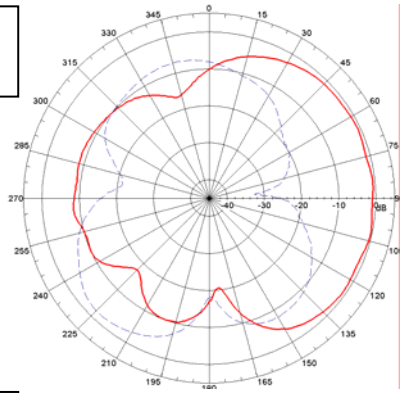


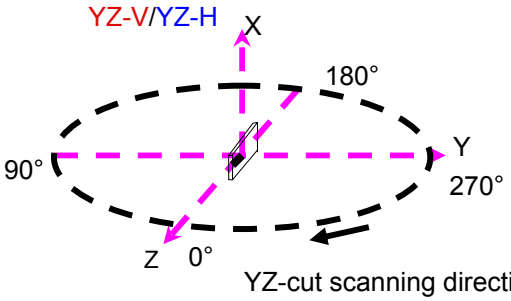




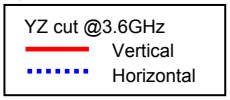
XZ-cut scanning direction

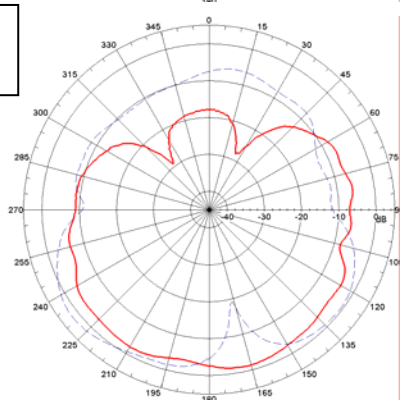






YZ-cut scanning direction



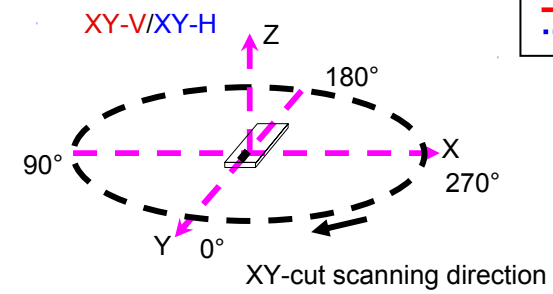


JOHANSON TECHNOLOGY

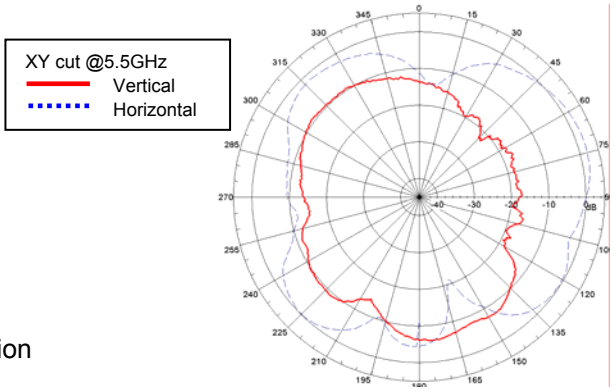
www.johansontechnology.com

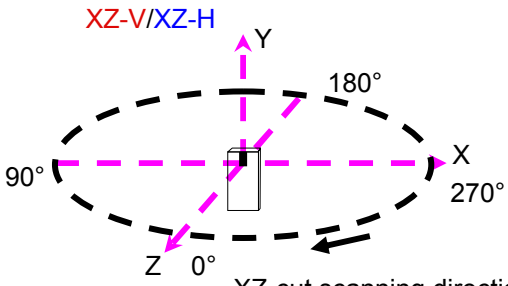
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ant2 Radiation Patterns

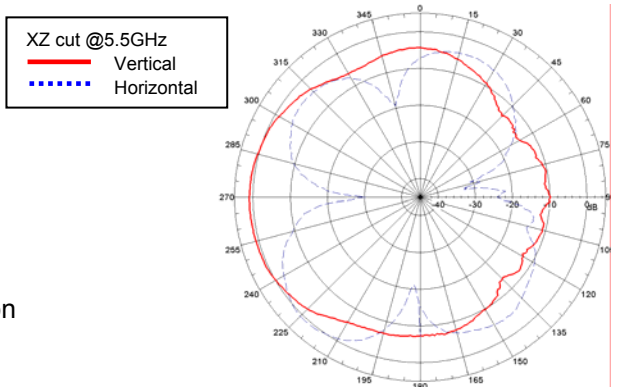


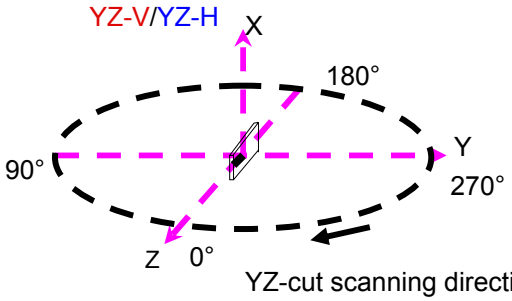
XY-cut scanning direction



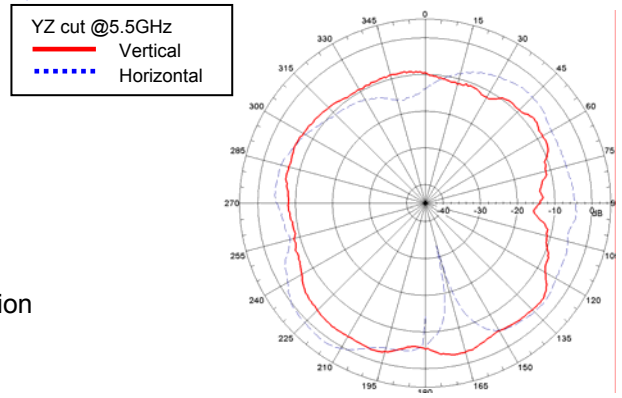


XZ-cut scanning direction





YZ-cut scanning direction



JOHANSON TECHNOLOGY

www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

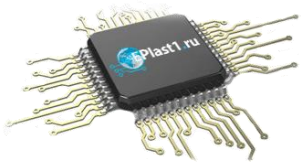
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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.