

# PRELIMINARY

## WiMAX 2.3 - 2.7 GHz Chip Antenna

P/N 2500AT44M0400

Detail Specification: 11/09/06

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### General Specifications

Part Number	2500AT44M0400
Freq. Range (GHz)	2300 - 2700
Peak Gain (XZ-V)	2.5 dBi typ.
Average Gain (XZ-V)	0.5 dBi typ.
Return Loss	9.5 dB min.

Input Power	3W max.
Impedance	50 $\Omega$
Operating Temp.	-40 to +85°C
Reel Quantity	1,000

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2500AT44M0400S
		T & R	Suffix = E	Eg. 2500AT44M0400E
	Termination Style	100% Tin	Suffix = None	Eg. 2500AT44M0400(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 2500AT44M0400(E or S)/Pb

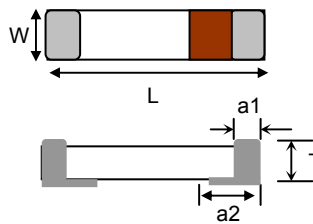
### Terminal Configuration

No.	Function
1	Feeding Point
2	NC



### Mechanical Dimensions

	In	mm
L	0.315 $\pm$ 0.008	8.00 $\pm$ 0.20
W	0.039 $\pm$ 0.008	1.00 $\pm$ 0.20
T	0.039 $\pm$ 0.008	1.00 $\pm$ 0.20
a	0.020 $\pm$ 0.008	0.50 $\pm$ 0.20
b	0.039 $\pm$ 0.008	1.00 $\pm$ 0.20



### Mounting Considerations

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

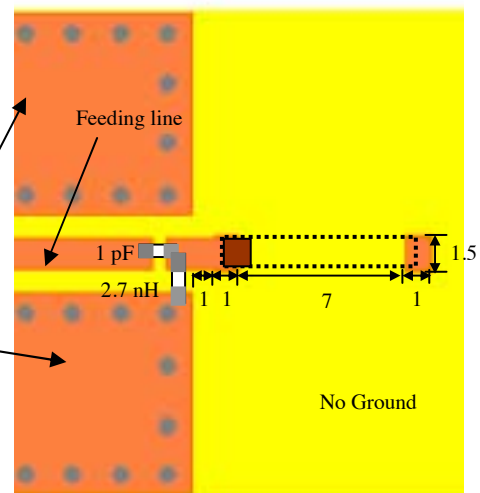
\* Line width should be designed to provide 50  $\Omega$  impedance matching characteristics, depending on PCB material and thickness.

Part numbers for Matching circuit:  
Cap (1pF) - 501R07S0R1BV4T  
Inductor (2.7nH) - L-07C2N7SV6T

(Matching circuit and component values will be different, depending on PCB layout)

With  
Matching  
Circuits

Ground



Johanson Technology, Inc. reserves the right to make design changes without notice.

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# High Frequency Ceramic Solutions

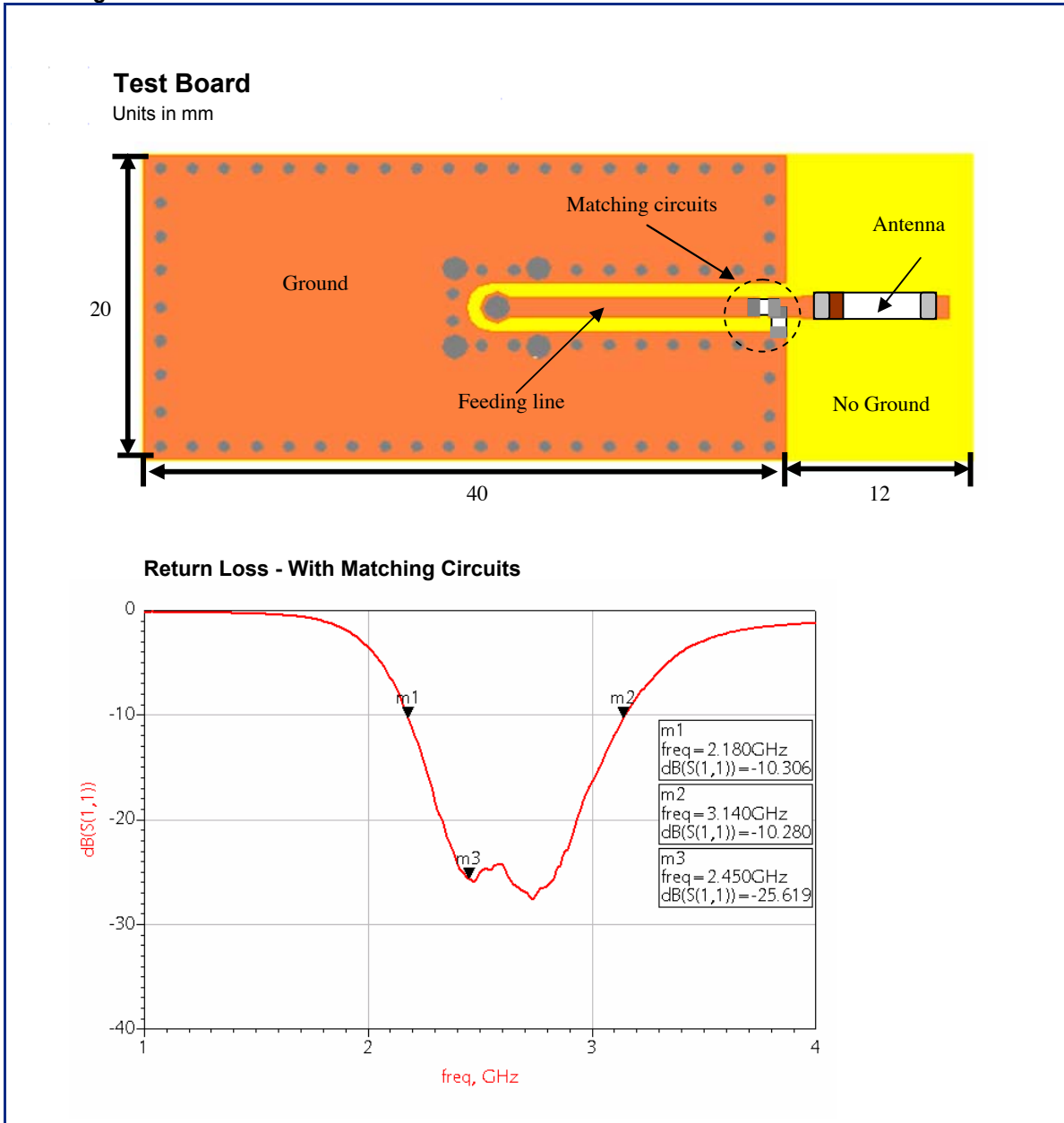
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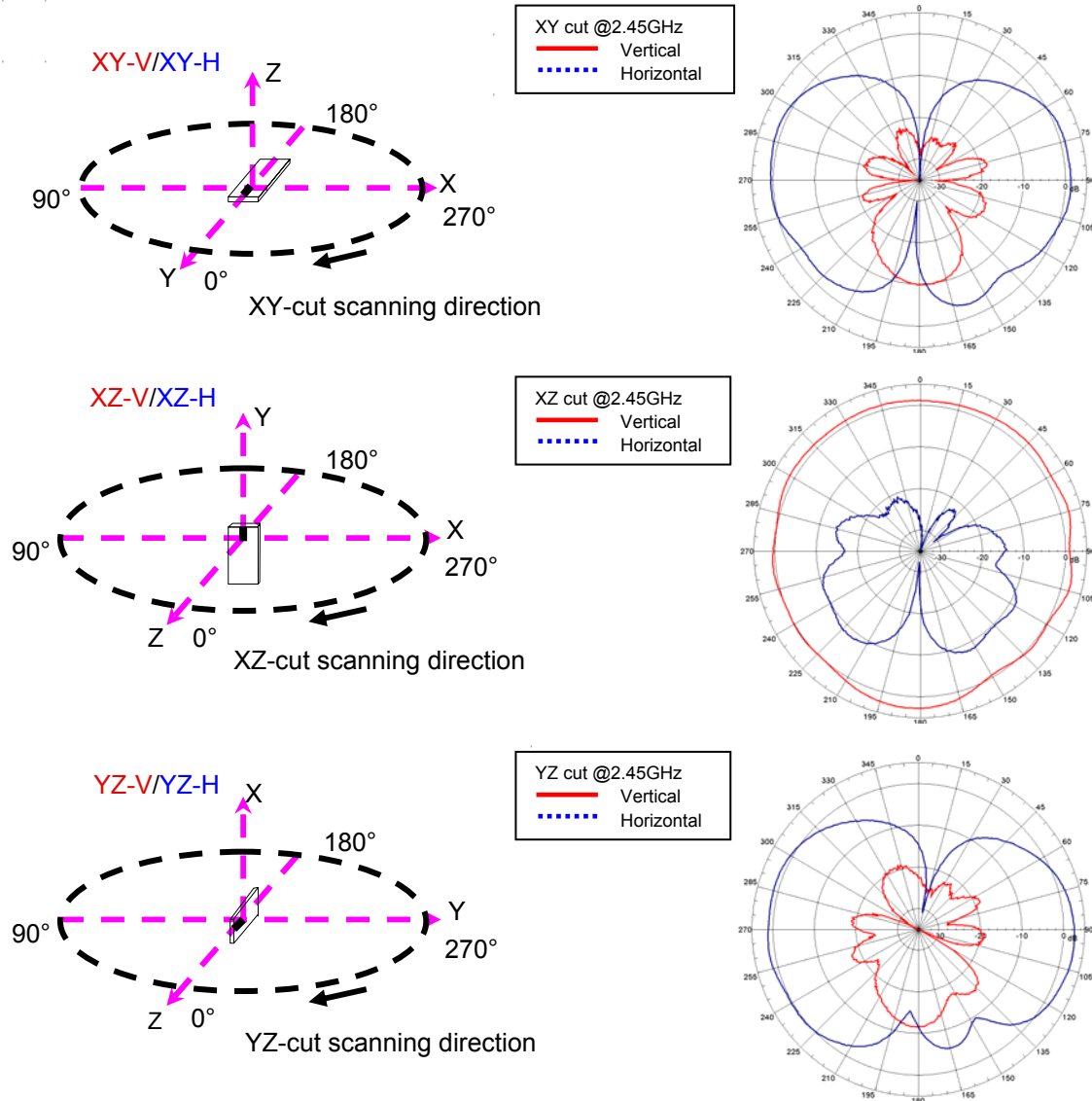
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## Ant1 Radiation Patterns



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