

High Frequency Ceramic Solutions

Ultra Wide Band (UWB) Chip Antenna 3.1 -10.3 GHz

P/N 3100AT51A7200

Detail Specification: 08/29/2008

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General Specifications

Part Number	3100AT51A7200
Freq. Range (GHz)	3100 - 10300
Peak Gain (XZ-V)	1.5 dBi typ.
Average Gain (XZ-V)	-3.5 dBi typ.
Return Loss	9.5 dB min.

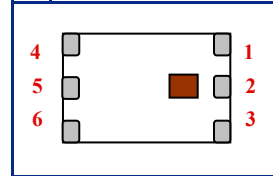
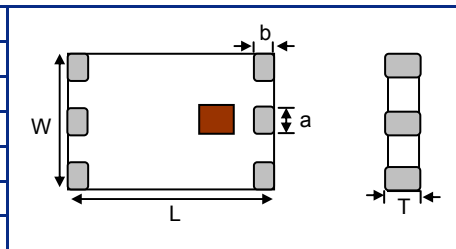
Input Power	3W max.
Impedance	50 Ω
Operating Temp.	-40 to +85°C
Reel Quantity	1,000

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 3100AT51A7200S
		T & R	Suffix = E	Eg. 3100AT51A7200E
	Termination Style	100% Tin	Suffix = None	Eg. 3100AT51A7200(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 3100AT51A7200(E or S)/Pb

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

Mechanical Dimensions

	In	mm
L	0.394 $\pm$ 0.012	10.00 $\pm$ 0.30
W	0.236 $\pm$ 0.012	6.00 $\pm$ 0.30
T	0.047 $\pm$ 0.008	1.20 $\pm$ 0.20
a	0.039 $\pm$ 0.012	1.00 $\pm$ 0.30
b	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30

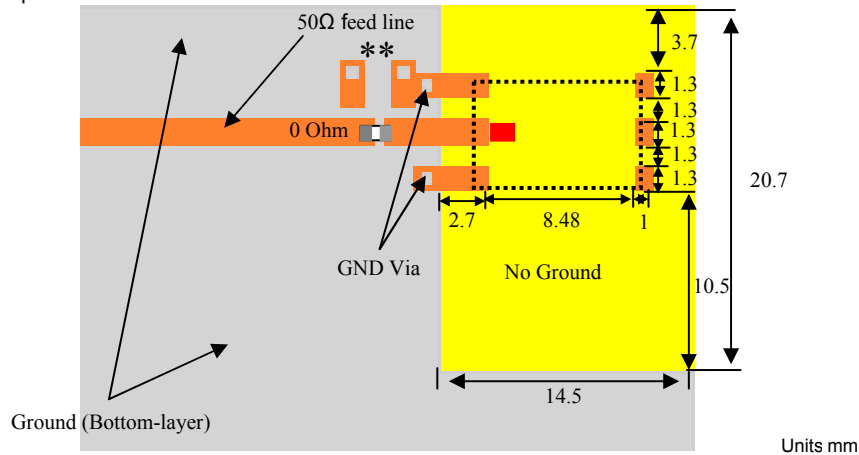


Mounting Considerations

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

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

**No matching circuit required



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

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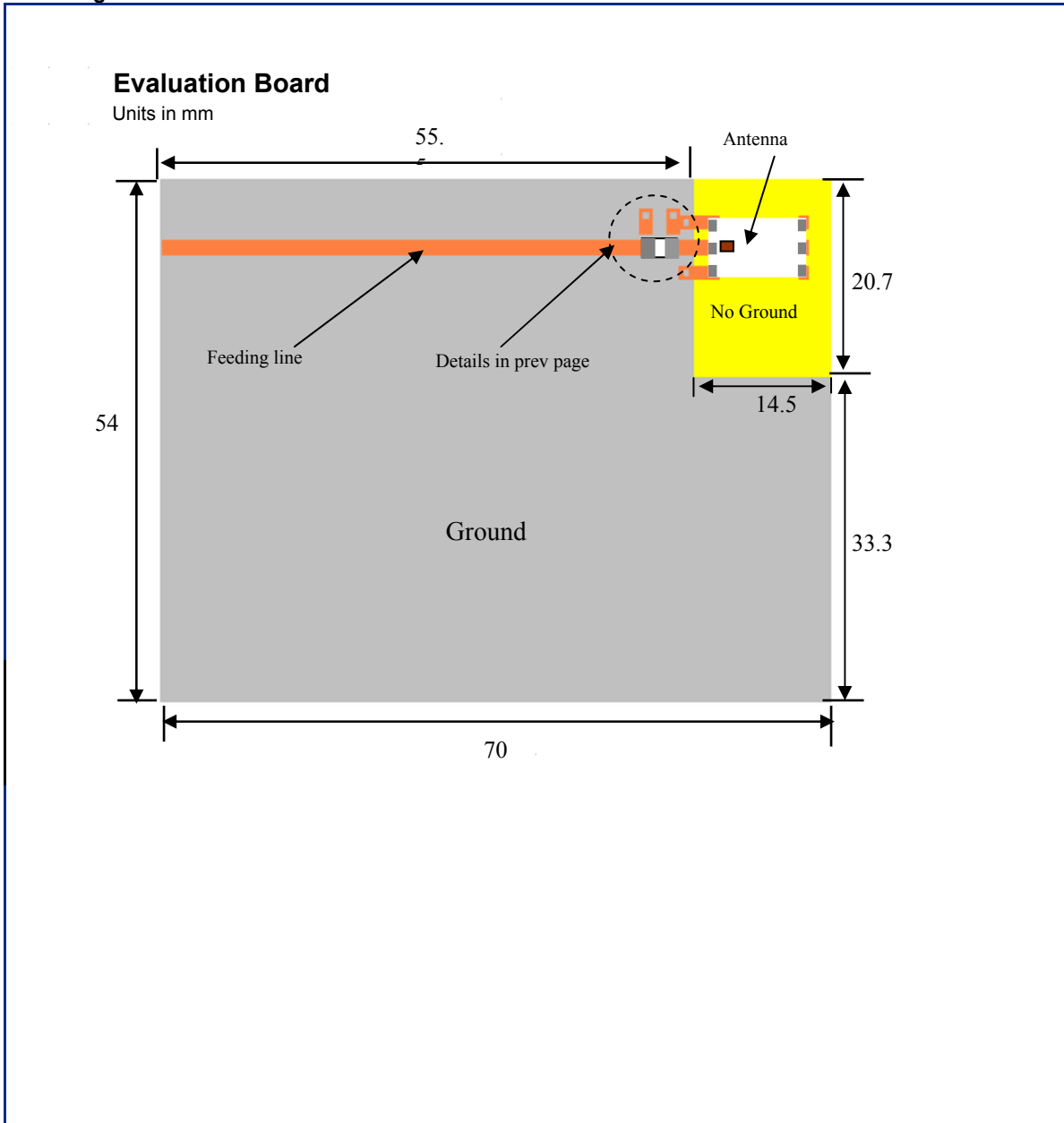
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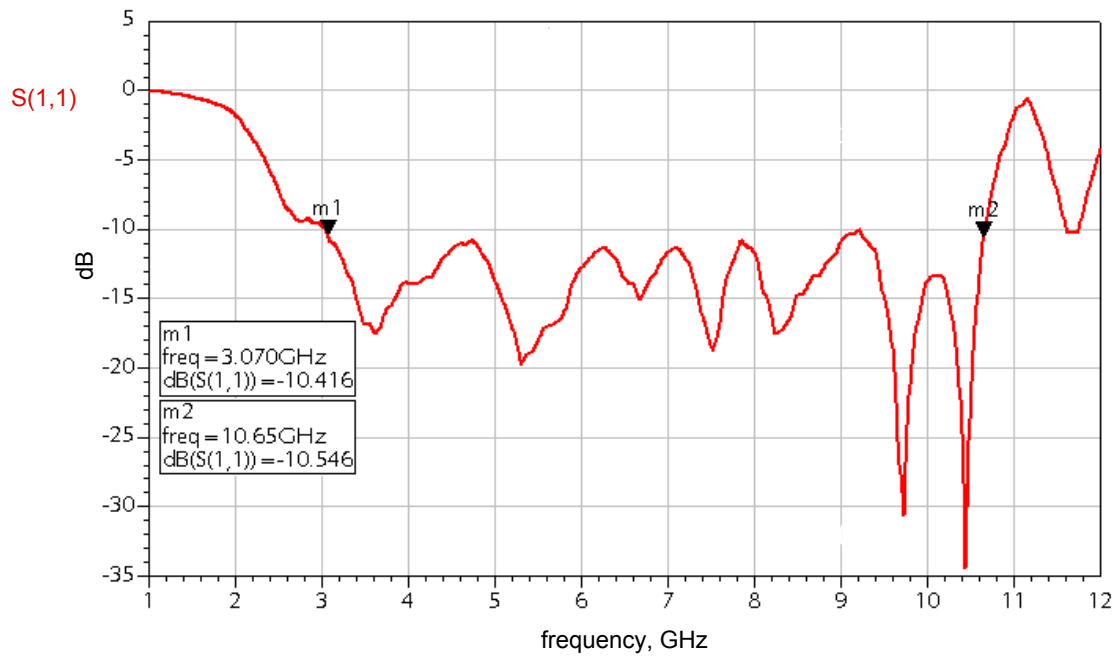
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Electrical Performance (At room temp 25°C)

Return Loss & Isolation



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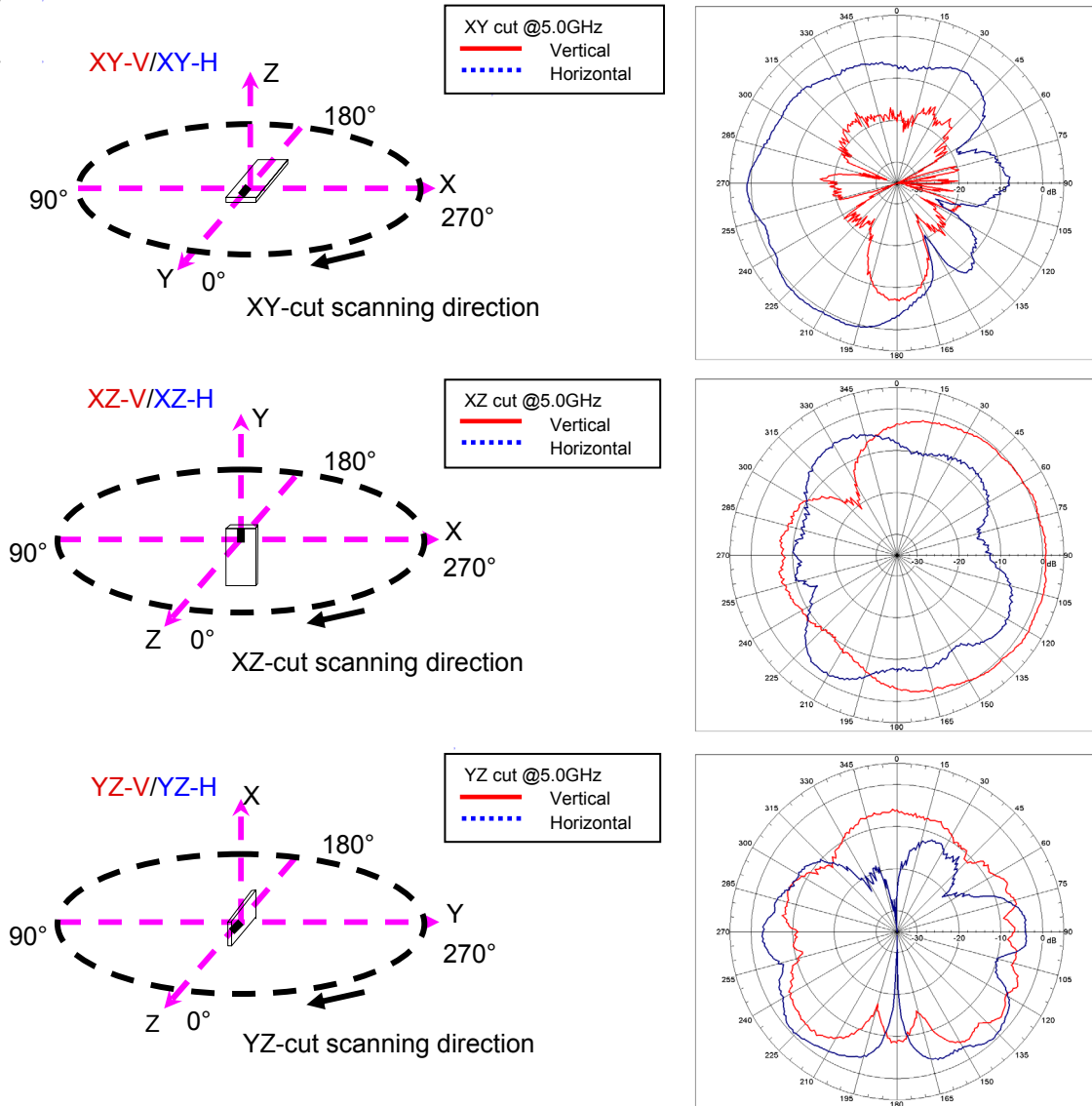
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Antenna Radiation Patterns



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