

# "High Frequency Ceramic Solutions"

## 5.4 GHz Wideband Antenna

P/N 5400AT18A1000

Detail Specification: 01/27/2011

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### General Specifications

Part Number	5400AT18A1000
Frequency Range	4900 - 5900 Mhz
Peak Gain	2.0 dBi typ. (XZ-V)
Average Gain	-2.5 dBi typ. (XZ-V)
Return Loss	8.5 dB min.
Input Power	500mW max.
Impedance	50 Ω

Operating Temperature	-40 to +85°C
Reel Quantity	3,000
Storage Temperature	+5 to +35°C, Humidity:45-75%RH, 18 mos. Max

No.	Function	Terminal Configuration
1	Feeding Point	
2	NC	

### Mechanical Dimensions

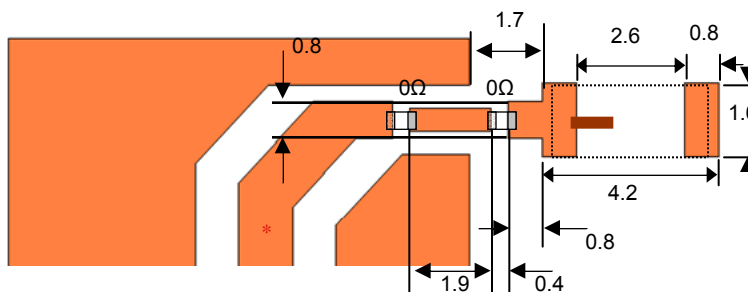
	In	mm
L	0.126 ± 0.008	3.20 ± 0.20
W	0.063 ± 0.008	1.60 ± 0.20
T	0.051 +.004/-0.008	1.30 +0.1/-0.2
a	0.020 ± 0.012	0.50 ± 0.30

### Mounting Considerations

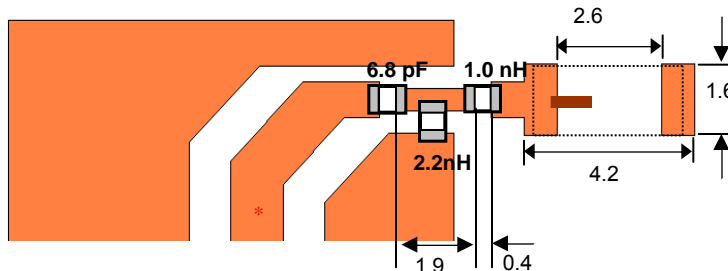
Mount these devices with brown mark facing up. Units: mm

\*Line width should be designed to provide 50Ω impedance matching characteristics.

a) Without Matching Circuits



b) With Matching Circuits



JTI P/N for Matching Circuit:  
 Cap (6.8pF): 500R07S6R8BV4T  
 Inductor (1.0nH): L-07C1N0SV6T  
 Inductor (2.2nH): L-07C2N2SV6T

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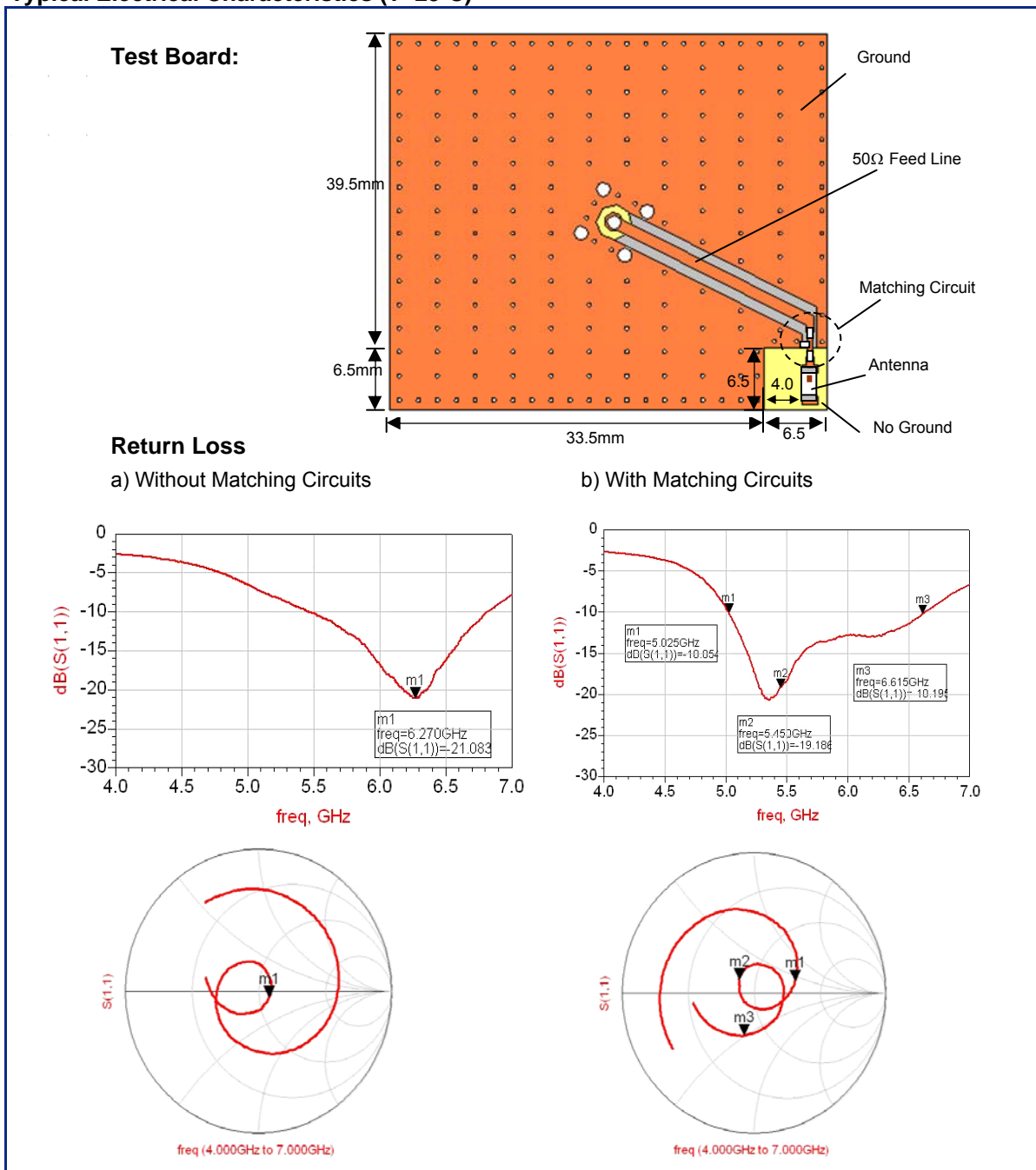
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### Typical Electrical Characteristics (T=25°C)



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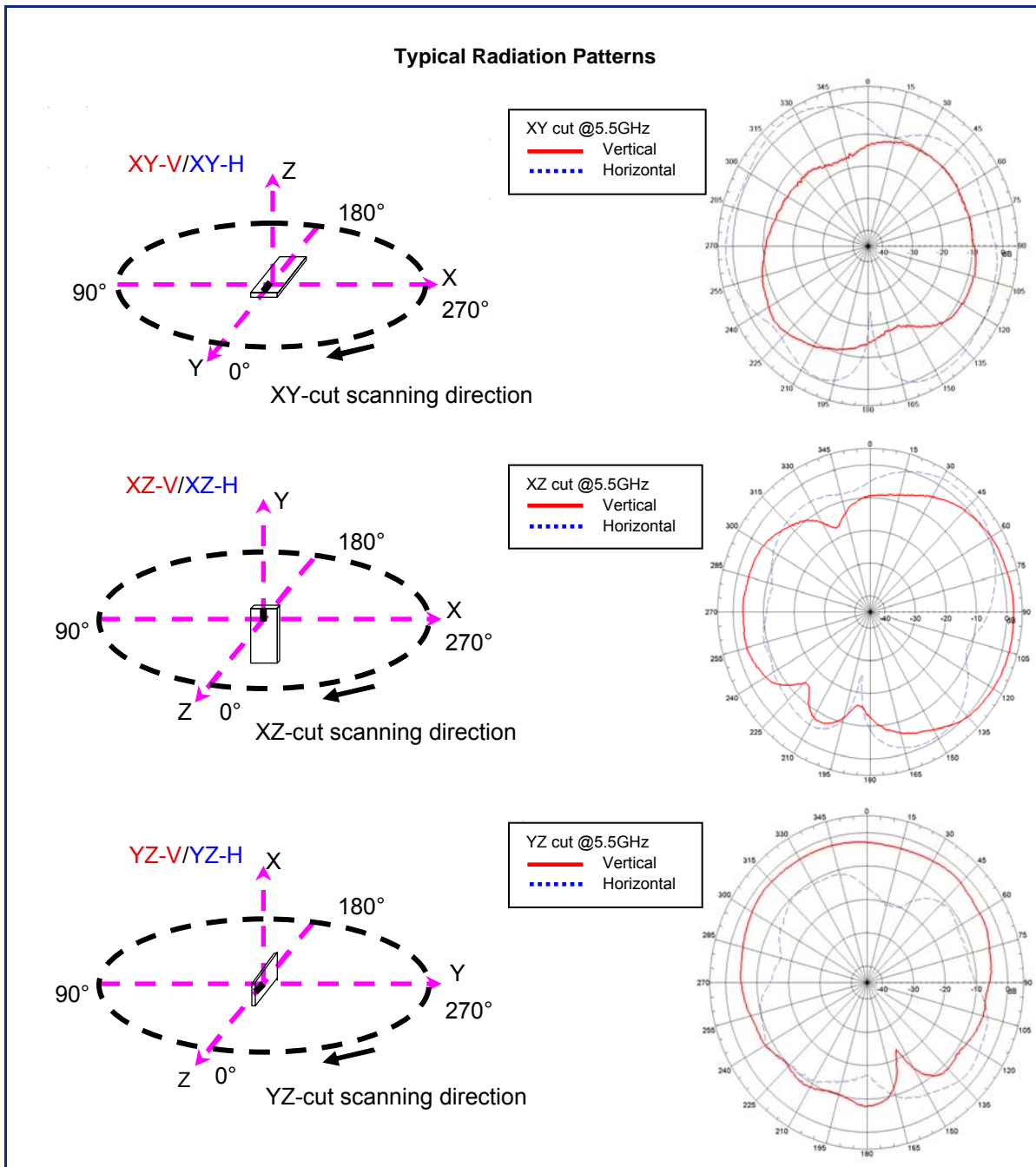
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