

# "High Frequency Ceramic Solutions"

## 2.45 GHz Antenna

P/N 2450AT45A100

Detail Specification: 07/07/06

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### General Specifications

Part Number	2450AT45A100
Frequency Range	2400 - 2500 Mhz
Peak Gain	3.0 dBi typ. (XZ-V)
Average Gain	1.0 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

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

### Mechanical Dimensions

	In	mm
L	0.374 ± 0.008	9.50 ± 0.20
W	0.079 ± 0.008	2.00 ± 0.20
T	0.047 +.004/-0.008	1.20 +0.1/-0.2
a	0.020 ± 0.012	0.50 ± 0.30

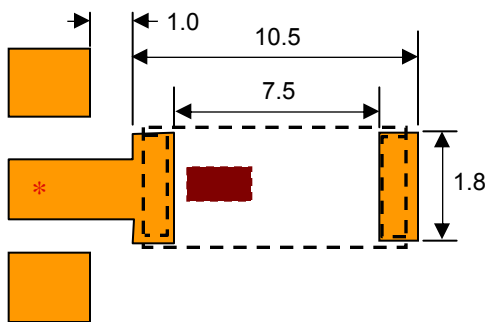
### Terminal Configuration

No.	Function
1	Feeding Point
2	NC

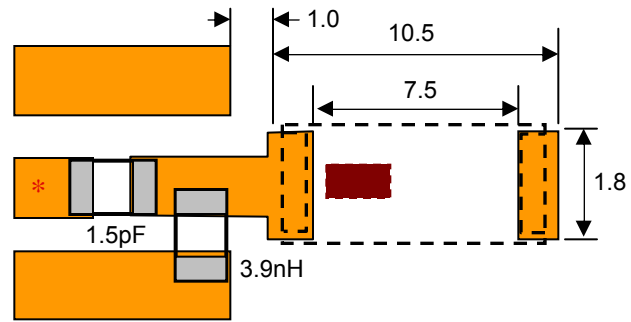
### Mounting Considerations

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

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



a) Without Matching Circuit (moderate bandwidth)



b) With Matching Circuit\* (wide bandwidth)

\*Matching circuit and component values will depend on PCB layout

Johanson Technology, Inc. reserves the right to make design changes without notice.  
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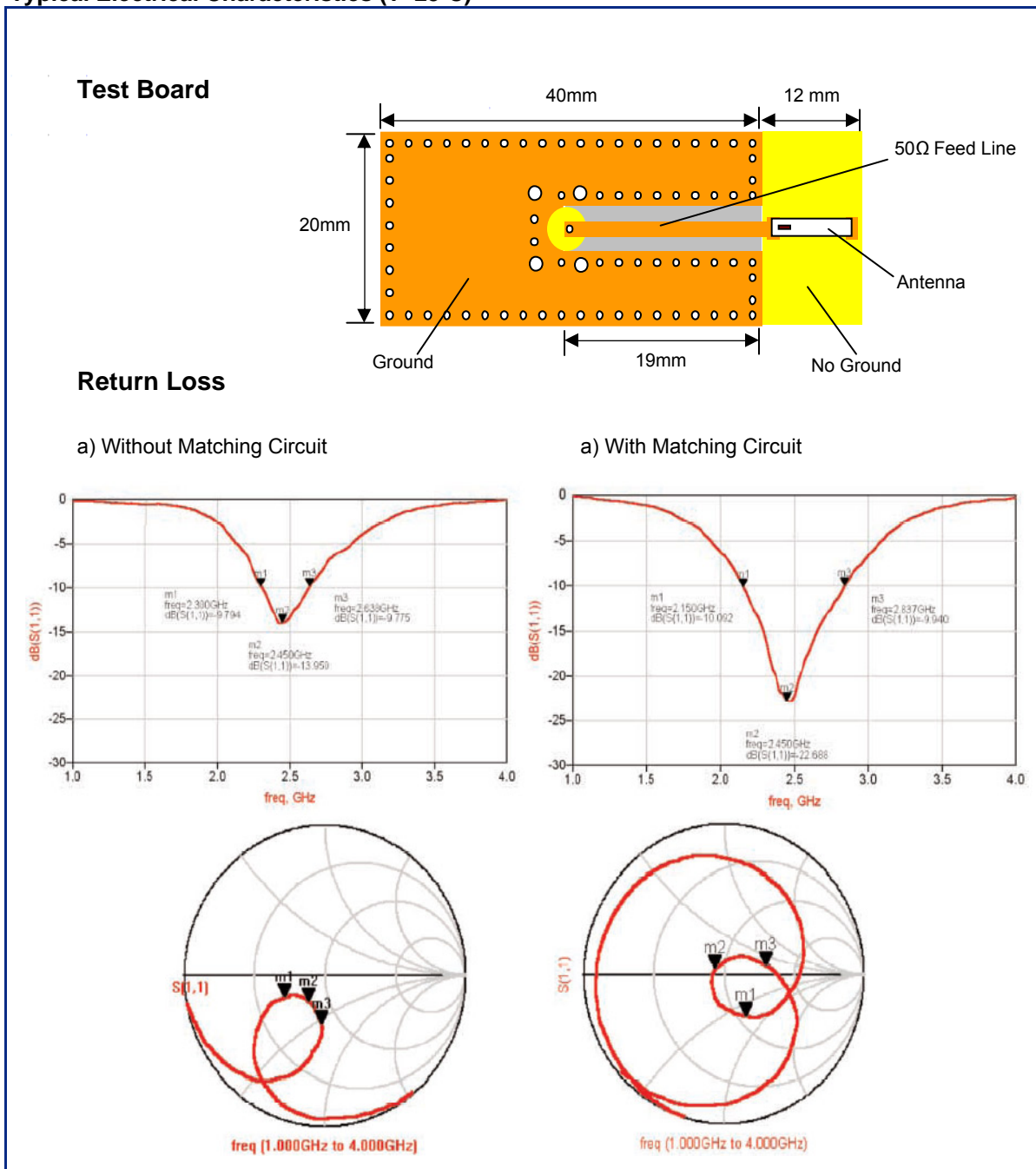
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### Typical Electrical Characteristics (T=25°C)



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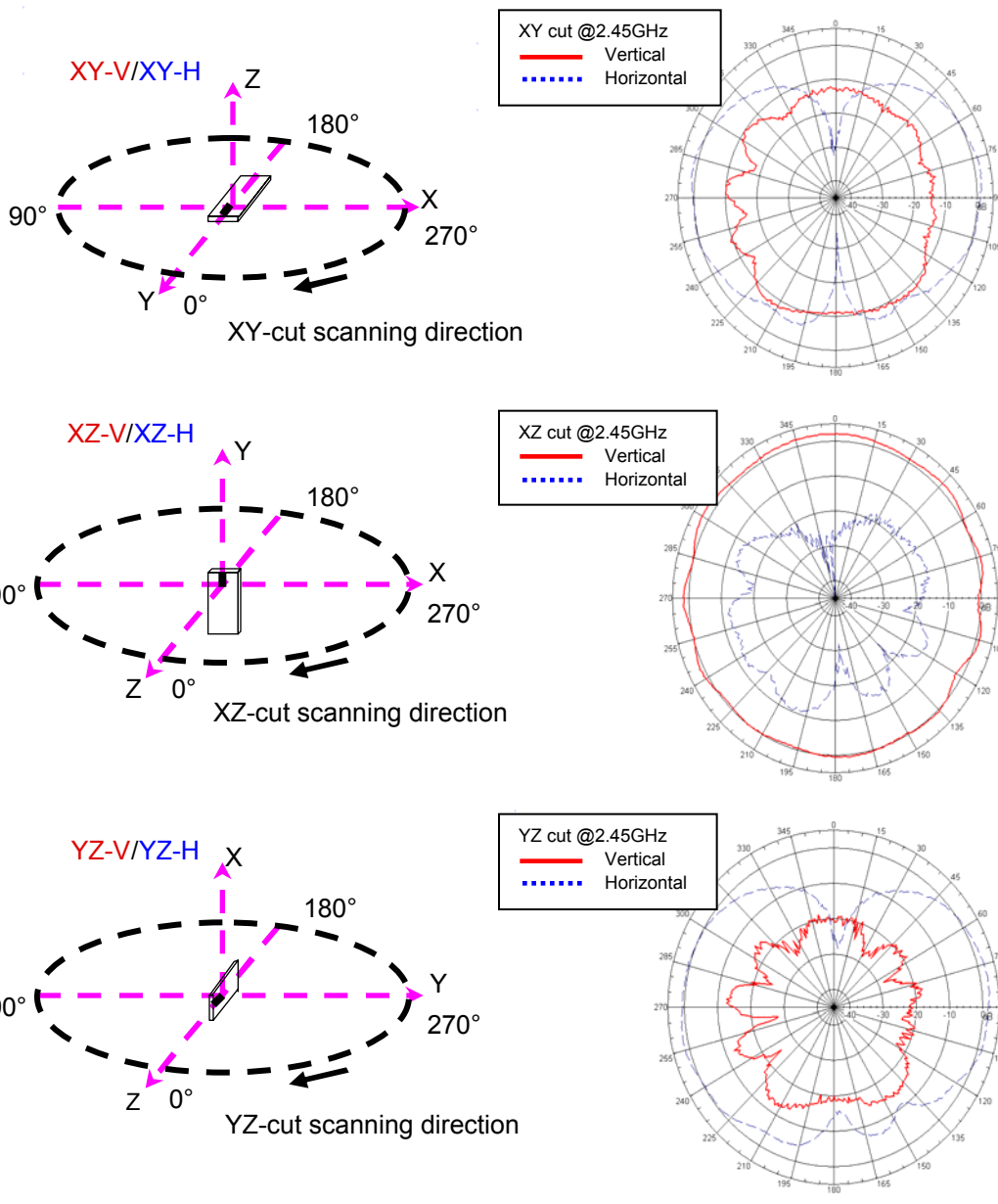
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## Typical Radiation Patterns



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