

PRELIMINARY

2.45 GHz Antenna	P/N 2450AT42D0100
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General Specifications	
Part Number	2450AT42D0100
Frequency Range	2400 - 2500 Mhz
Peak Gain	0.5 dBi typ. (XZ-total)
Average Gain	-2.0 dBi typ. (XZ-total)
Return Loss	6.0 dB min.

Input Power	3W max.
Impedance	50 Ω
Operating Temperature	-40 to +85°C
Reel Quantity	2,000

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No.	Function	Terminal Configuration
1	Feeding Point	
2	NC	

Mechanical Dimensions				
	In	mm		
L	0.197 ± 0.008	5.00 ± 0.20		
W	0.079 ± 0.008	2.00 ± 0.20		
T	0.118 +.004/-.008	3.00 +0.1/-0.2		
a	0.020 ± 0.012	0.50 ± 0.30		

Figure 1 consists of two schematic diagrams. The top view on the left shows a rectangular container with length L and width W . Inside the container, there is a porous medium represented by red dots, and two gray vertical plates are positioned at the ends. The side view on the right shows the height H of the container and the gap width a between the two gray vertical plates.

Mounting Considerations

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

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

Without Matching Circuit

The diagram shows a PCB layout on an orange substrate with grey circular vias. A yellow rectangular pad is on the left, with a dashed orange square in the center. A grey rectangular pad is on the right, with a dashed orange square in the center. A 0 Ohm resistor is mounted between the two pads. Dimensions are indicated: 1.5 mm for the yellow pad width, 1 mm for the dashed square width, 2 mm for the gap between pads, 1 mm for the grey pad width, and 0.5 mm for the gap between the resistor and the pads. The resistor is labeled '0 Ohm'.

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

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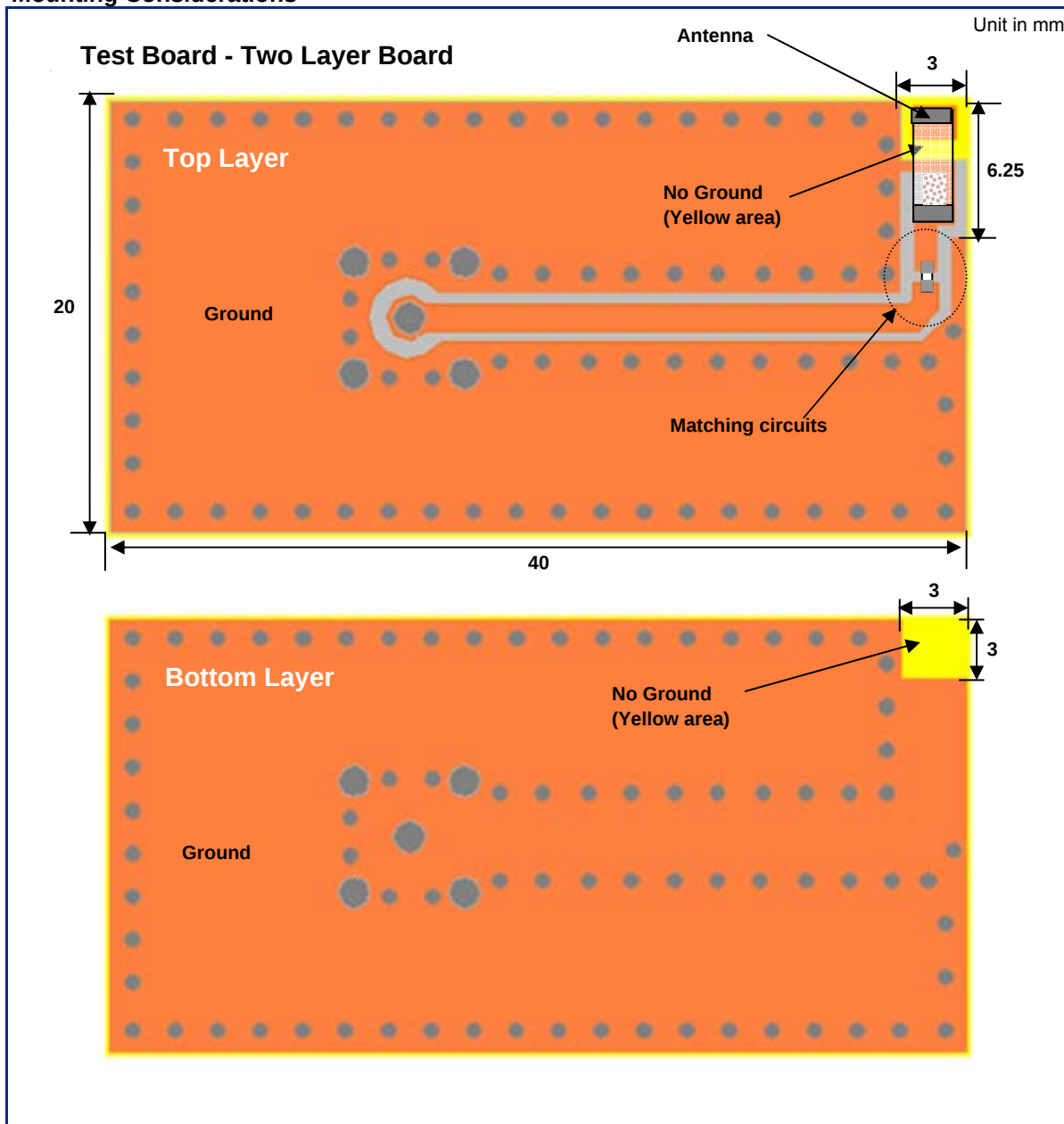
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Mounting Considerations



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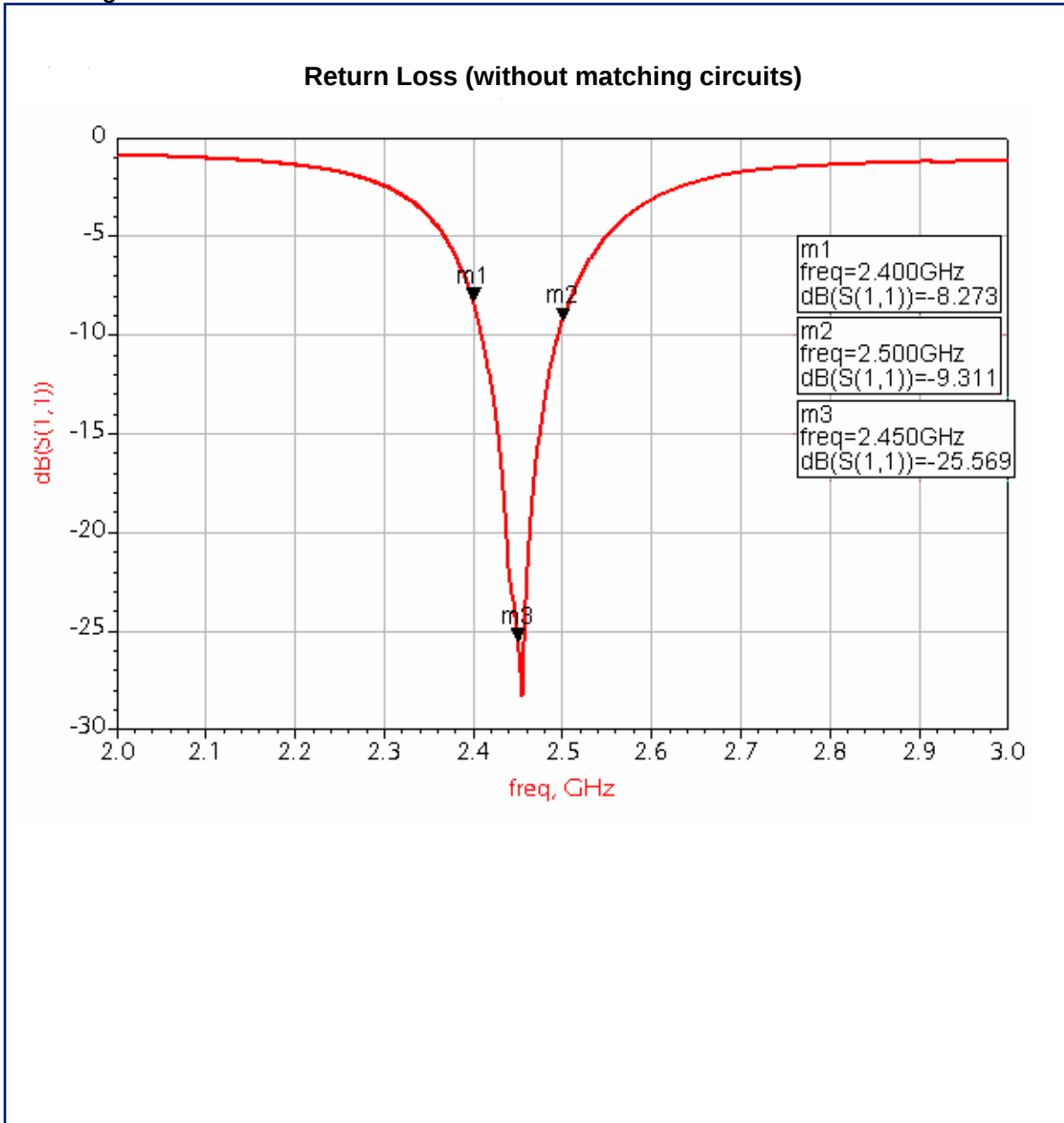
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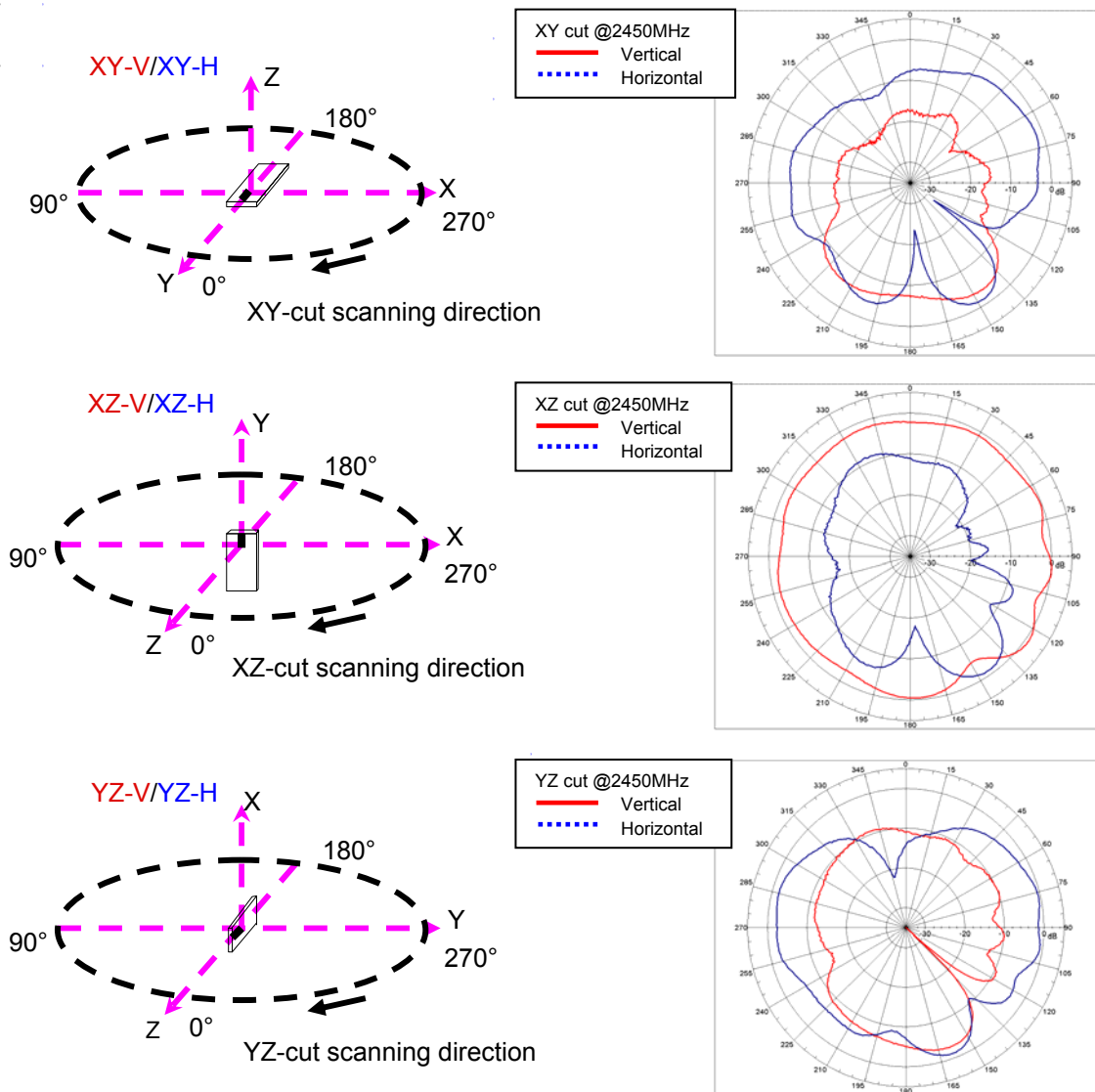
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Typical Radiation Patterns



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