

"High Frequency Ceramic Solutions"

2.45 GHz / 5.40 GHz Antenna

P/N 2450AD46A5400

Detail Specification: 03/03/05

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General Specifications

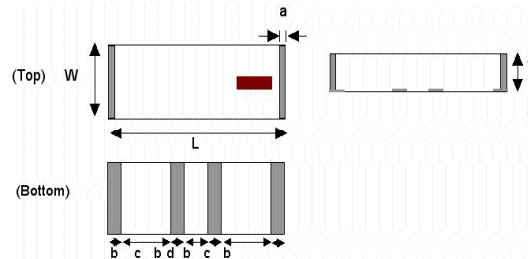
Part Number	2450AD46A5400	
Frequency	Low Band	High Band
Range (Mhz)	2400 - 2500 Mhz	4900 - 5900 Mhz
Return Loss	8.5 dB min.	8.5 dB min.
Peak Gain	1.0 dBi typ. (XZ-V)	-1.5 dBi typ. (YZ-V)
Average Gain	-2.5 dBi typ. (XZ-V)	-2.5 dBi typ. (YZ-V)

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

No.	Function	Terminal Configuration
1	High Band Feed	
2	Low Band Feed	
3	NC	
4	NC	

Mechanical Dimensions

	In	mm
L	0.335 $\pm$ 0.008	8.50 $\pm$ 0.20
W	0.063 $\pm$ 0.004 / -0.008	1.60 $\pm$ 0.1 / -0.2
T	0.047 $\pm$ 0.008	1.20 $\pm$ 0.20
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30
b	0.020 $\pm$ 0.006	0.51 $\pm$ 0.15
c	0.104 $\pm$ 0.006	2.64 $\pm$ 0.15
d	0.046 $\pm$ 0.006	1.18 $\pm$ 0.15

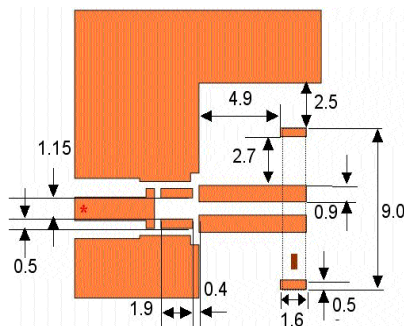


Mounting Considerations

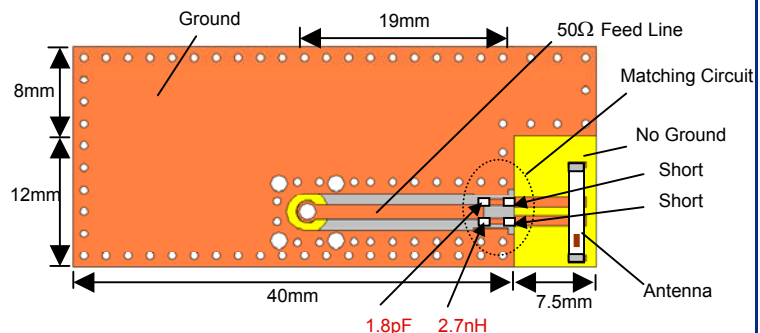
Mount these devices with brown mark facing up. Units: mm

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

PCB Layout



Test Board for Electrical Characteristic Measurements



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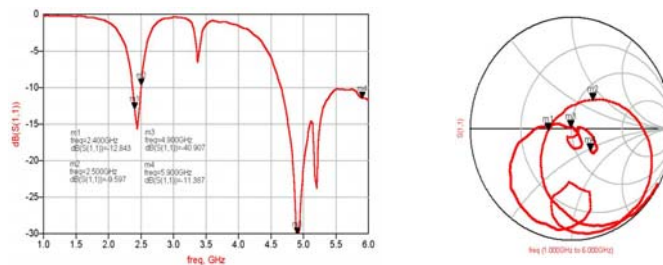
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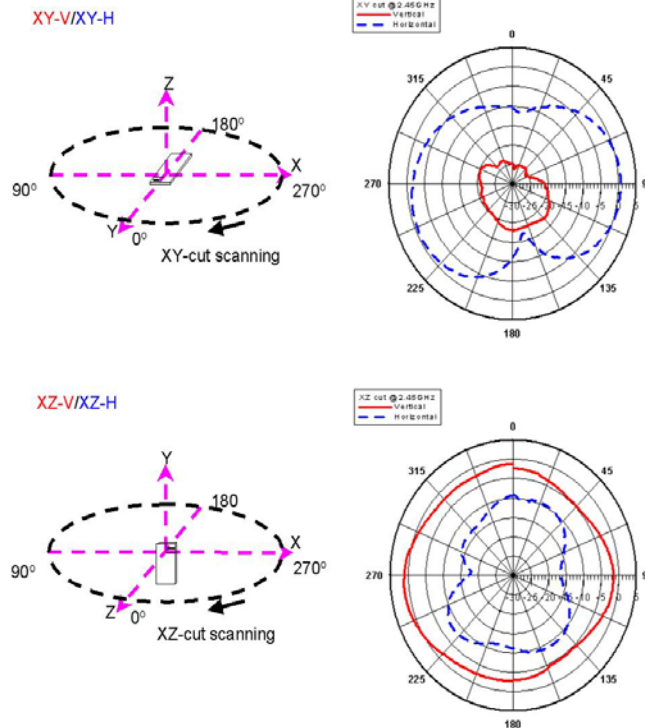
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Typical Return Loss



Typical Radiation Patterns



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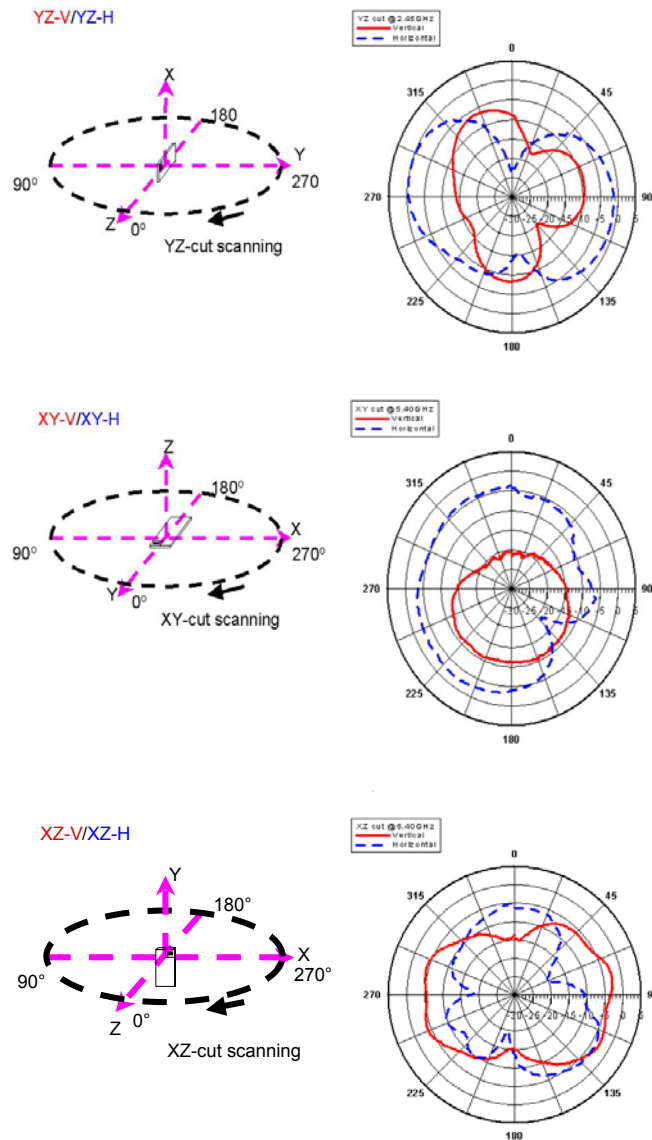
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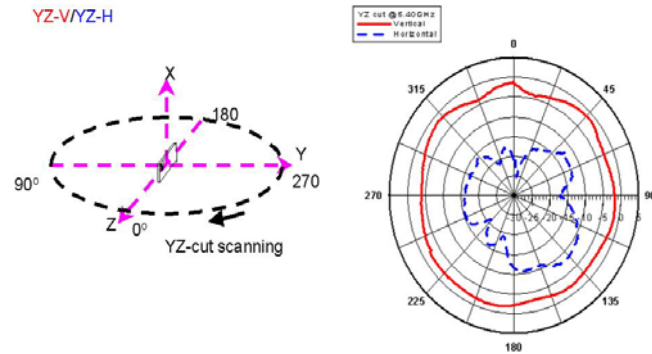
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