

"High Frequency Ceramic Solutions"

1.905 GHz Antenna

P/N 1905AT45A0050

Detail Specification: 07/29/2010

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Recommended application: DECT

General Specifications

Part Number	1905AT45A0050
Frequency Range	1880 - 1930MHz
Peak Gain	0.5 dBi typ (XZ-Total)
Average Gain	-1.1 dBi typ. (XZ-Total)
Return Loss	9.5 dB min.

Input Power	2W max.
Impedance	50 Ω
Reel Quantity	1,000
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity: 45-75%RH, 12 mos. Max

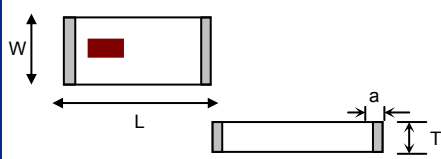
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 1905AT45A0050S
		T & R	Suffix = E	Eg. 1905AT45A0050E
	Termination Style	100% Tin	Suffix = None	Eg. 1905AT45A0050(E or S)
		Tin / Lead	Please consult Factory	

Terminal Configuration	
No.	Function
1	Feeding Point
2	NC



Mechanical Dimensions

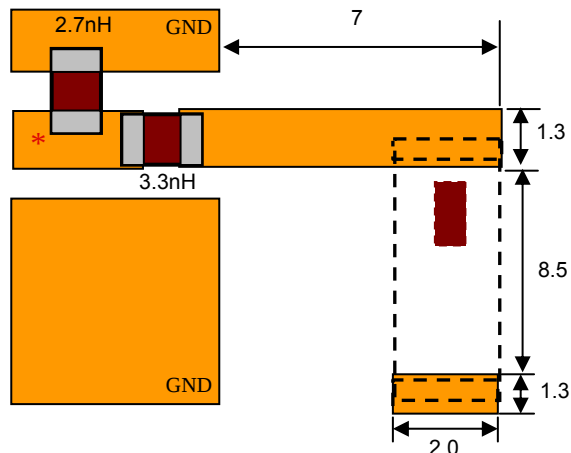
	In	mm
L	0.374 $\pm$ 0.008	9.50 $\pm$ 0.20
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
T	0.047 $\pm$ 0.004/-0.008	1.20 $\pm$ 0.1/-0.2
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30



Mounting Considerations

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

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



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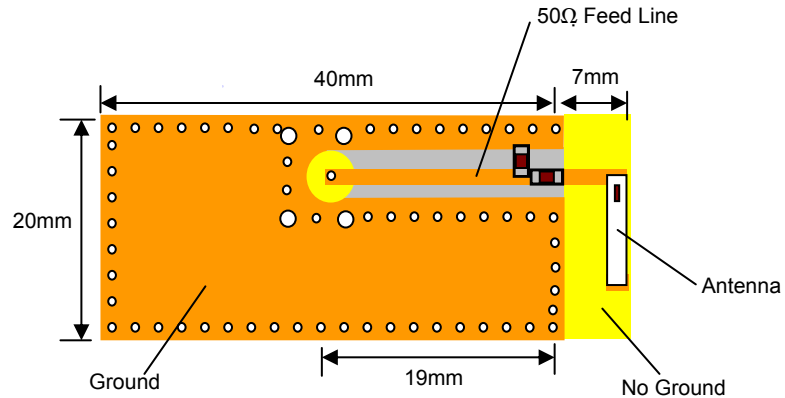
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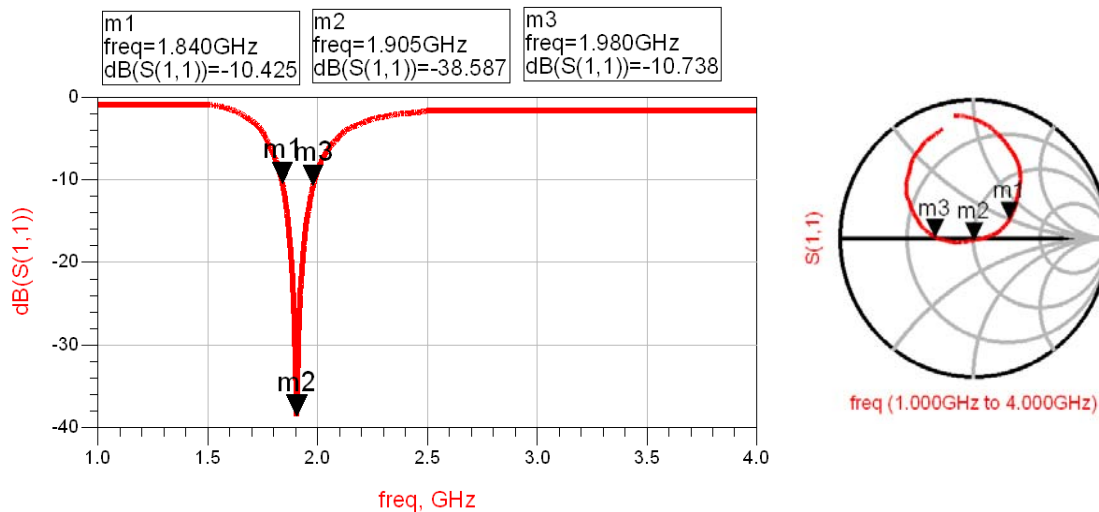
Typical Electrical Characteristics (T=25°C)

Test Board



Return Loss

a) With matching circuits for 1880~1930MHz



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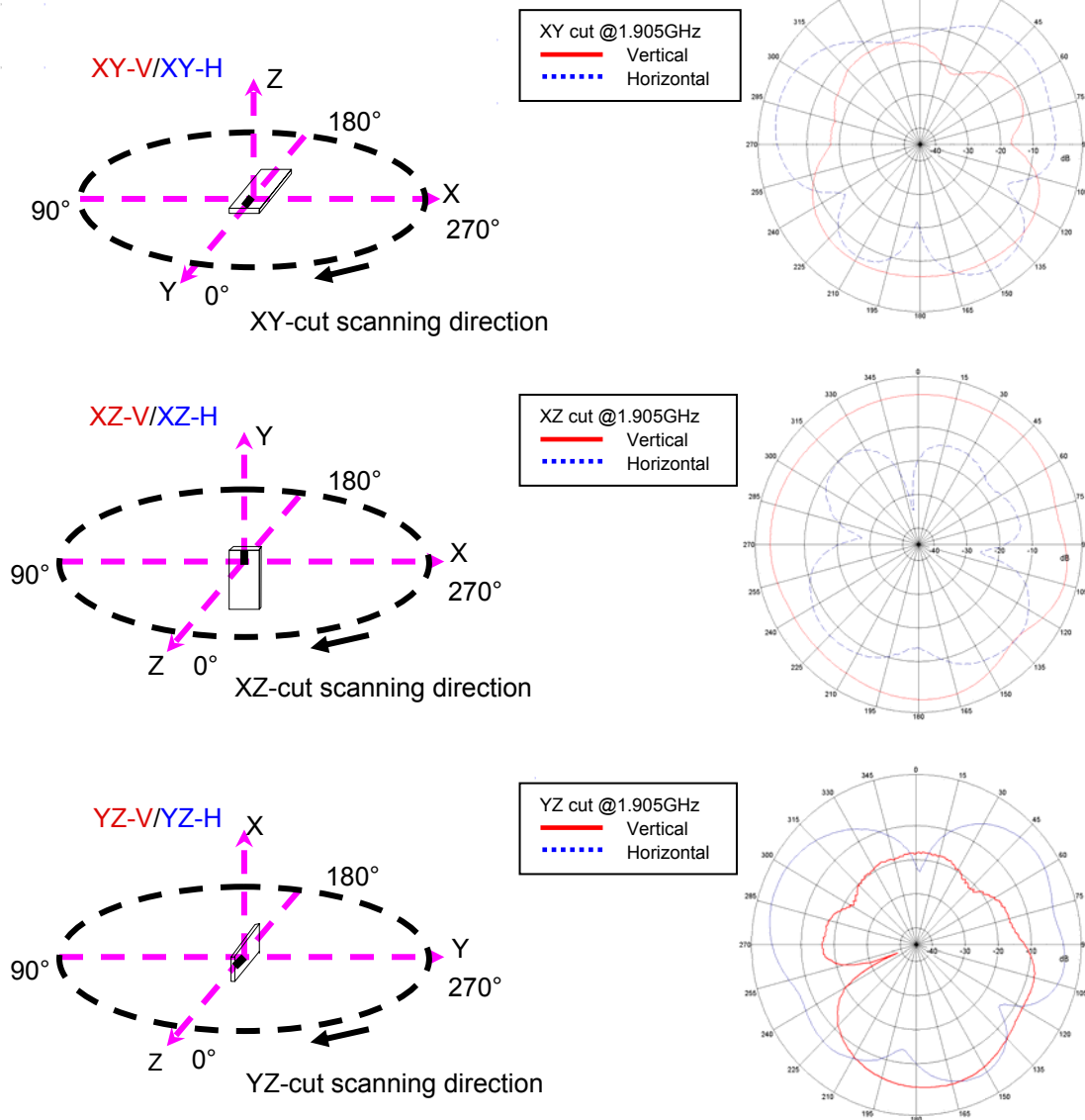
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Typical Radiation Patterns



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