

"High Frequency Ceramic Solutions"

1.905 GHz Antenna

P/N 1905AT45A0050

Detail Specification: 04/10/10

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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.

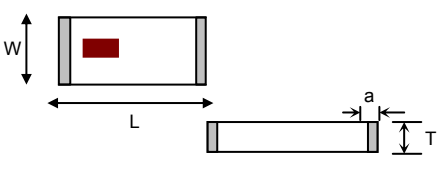
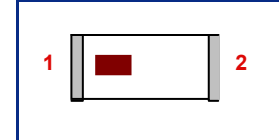
Input Power	2W max.
Impedance	50 Ω
Reel Quantity	1,000
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity: 45-75%RH, 12 mos. Max

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

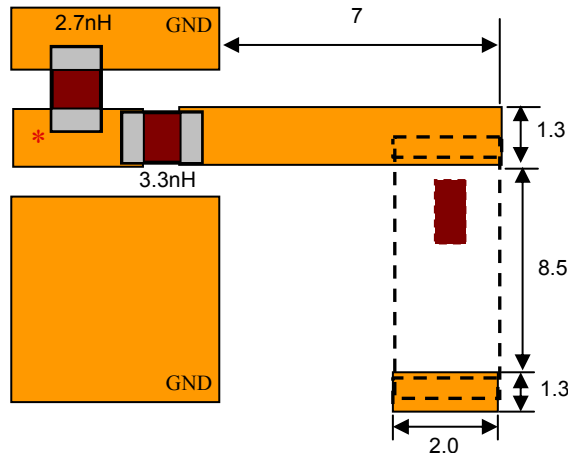
	In	mm
L	0.374 \pm 0.008	9.50 \pm 0.20
W	0.079 \pm 0.008	2.00 \pm 0.20
T	0.047 +.004/-0.008	1.20 +0.1/-0.2
a	0.020 \pm 0.012	0.50 \pm 0.30

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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www.johansontechnology.com

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"High Frequency Ceramic Solutions"

Preliminary

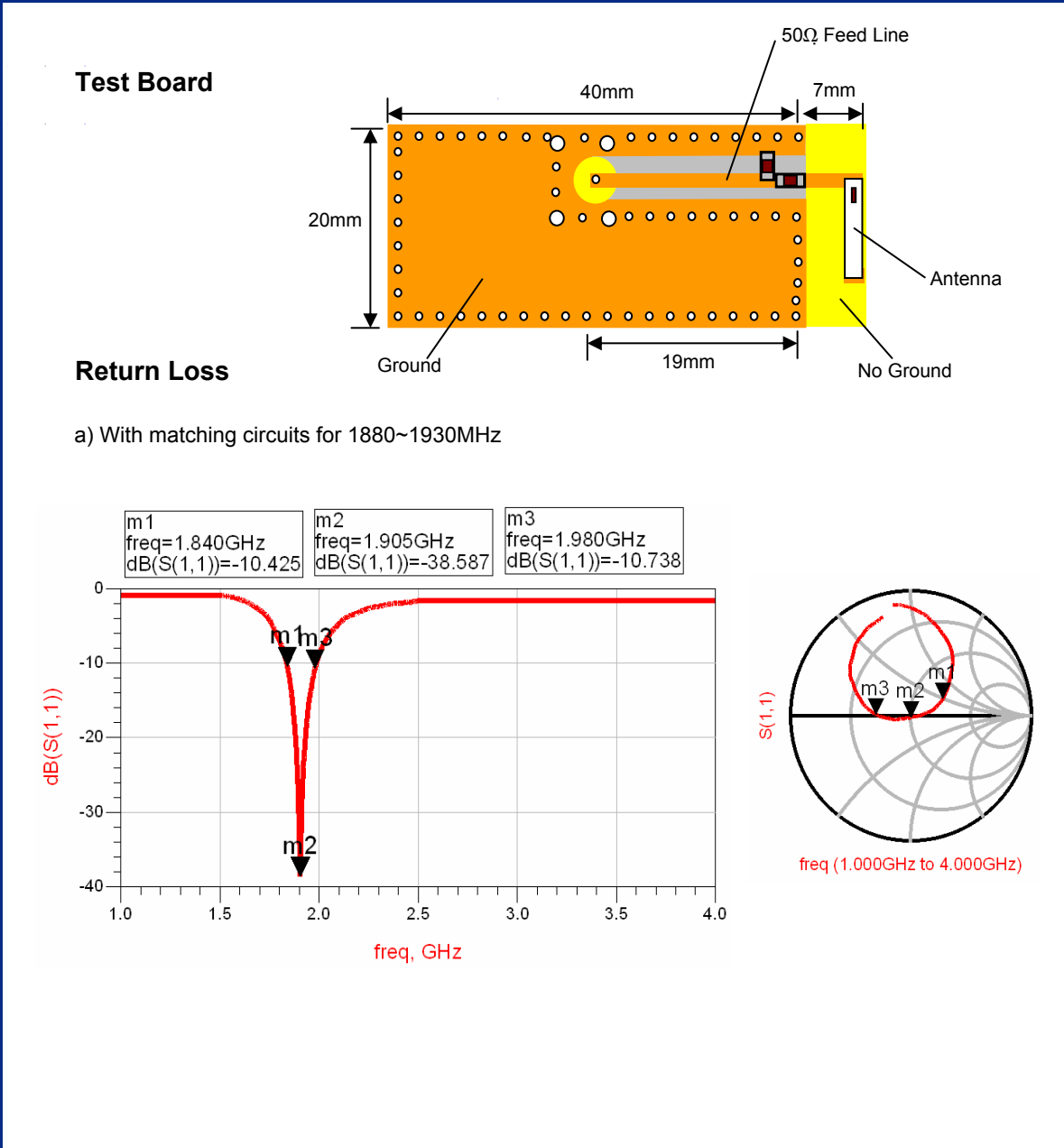
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Typical Electrical Characteristics (T=25°C)



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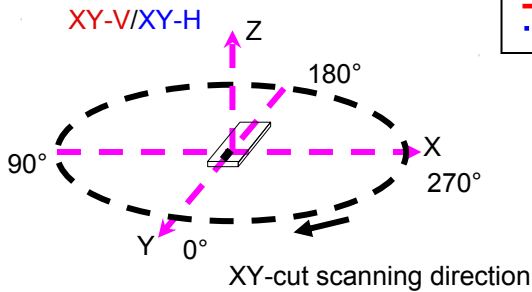
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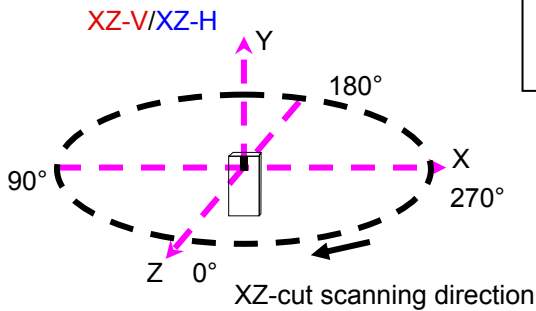
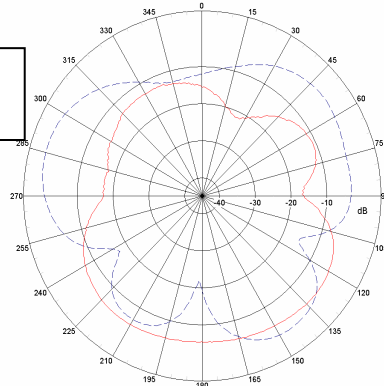
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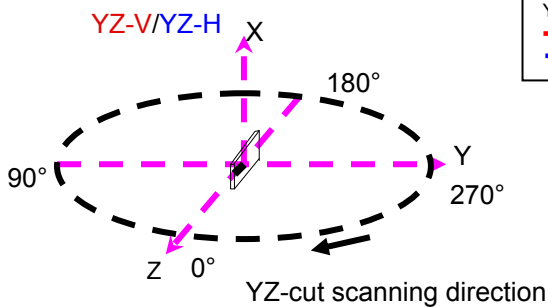
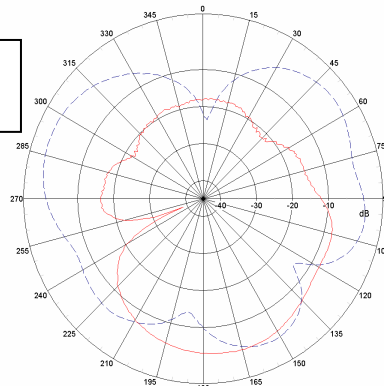
Typical Radiation Patterns



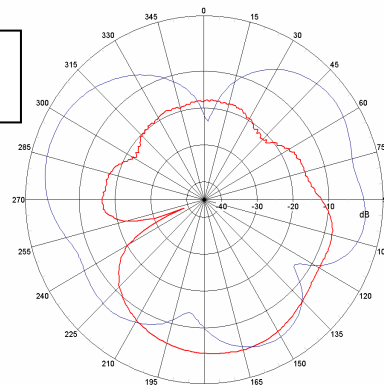
XY cut @1.905GHz
— Vertical
- - - Horizontal



XZ cut @1.905GHz
— Vertical
- - - Horizontal



YZ cut @1.905GHz
— Vertical
- - - Horizontal



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