

# "High Frequency Ceramic Solutions"

## 1.575 GHz Antenna

P/N 1575AT43A0040

Detail Specification: 10/27/09

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### General Specifications

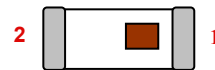
Part Number	1575AT43A0040
Frequency Range	1555 - 1595 Mhz
Peak Gain	-1.5 dBi typ. (XZ-V)
Average Gain	-2.5 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

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

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 1575AT43A0040S
		T & R	Suffix = E	Eg. 1575AT43A0040E
	Termination Style	100% Tin	Suffix = None	Eg. 1575AT43A0040(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 1575AT43A0040(E or S)/Pb

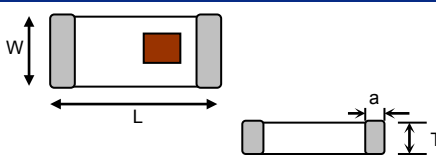
### Terminal Configuration

No.	Function
1	Feeding Point
2	NC



### Mechanical Dimensions

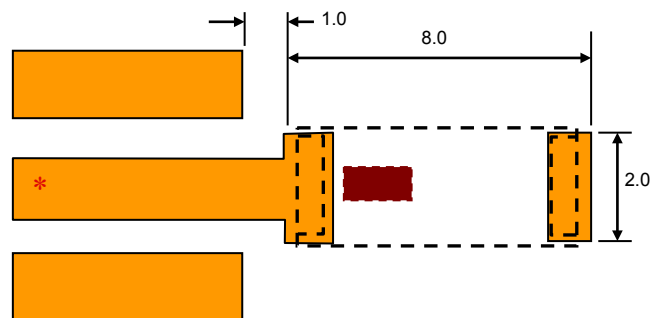
	In	mm
L	0.276 $\pm$ 0.008	7.00 $\pm$ 0.20
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
T	0.031 $\pm$ 0.004/-0.008	0.80 $\pm$ 0.1/-0.2
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30



### Mounting Considerations

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

\* Line width should be designed to provide 50 $\Omega$  impedance matching characteristics, depending on PCB material and thickness.



(Matching components, if used, will vary in value depending on PCB layout)

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[www.johansontechnology.com](http://www.johansontechnology.com)

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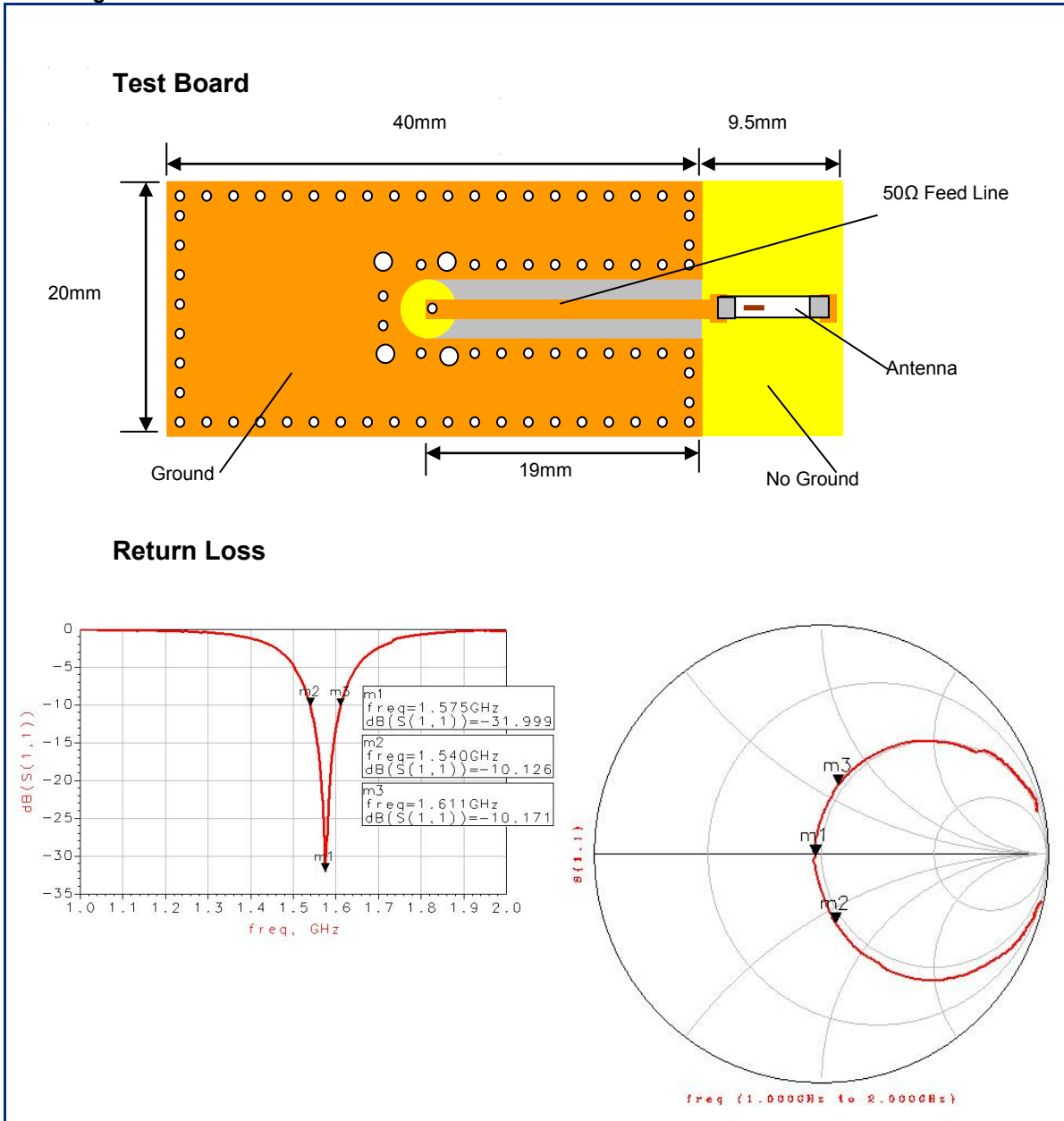
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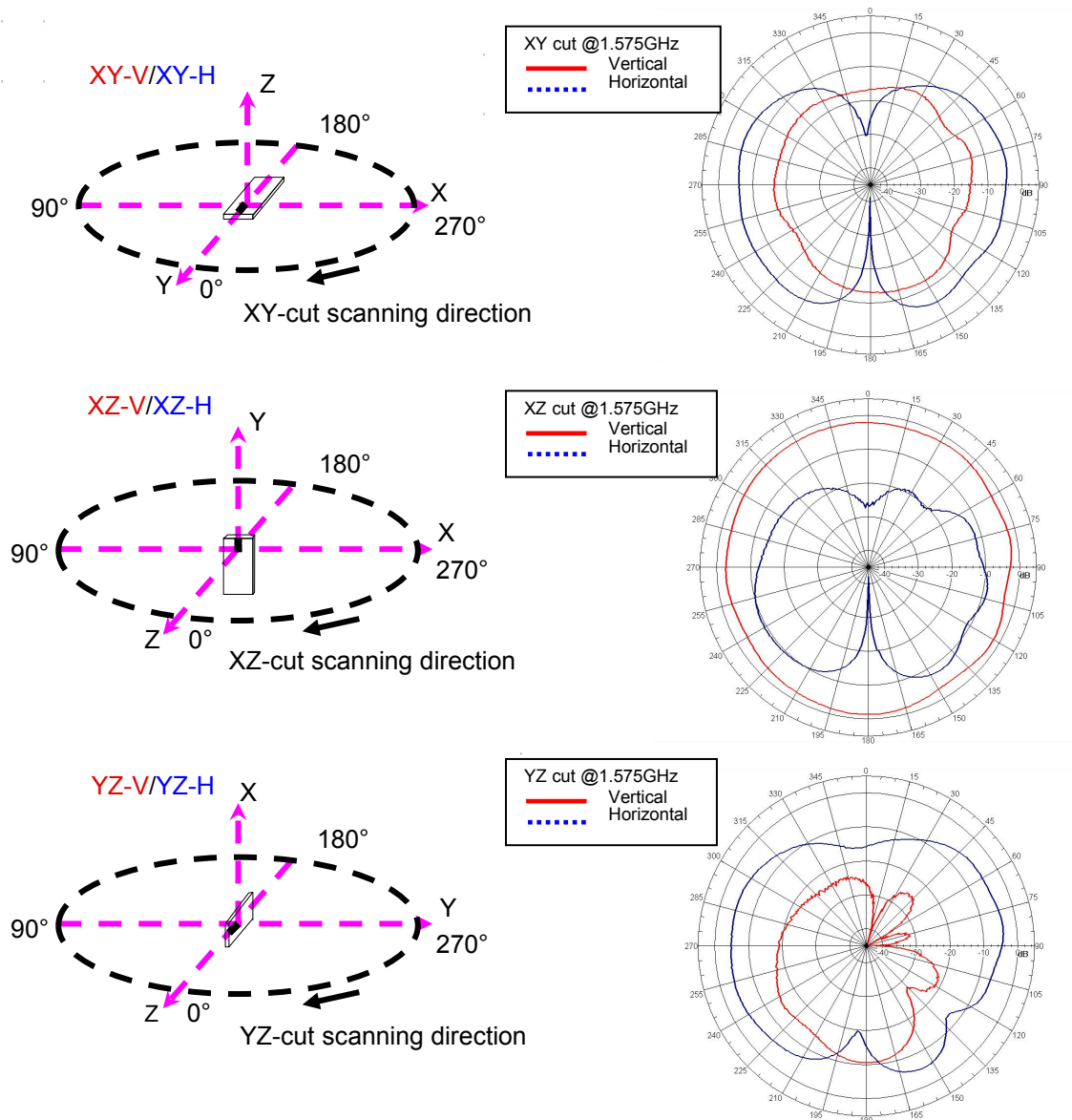
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## Typical Radiation Patterns



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