



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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"High Frequency Ceramic Solutions"

1575MHz GPS Ultra-Compact Ceramic Chip Antenna

P/N 1575AT44A0010

Detail Specification: 9/24/2012

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General Specifications

Part Number	1575AT44A0010
Frequency Range	1570~1580 MHz
Peak Gain (XZ-total)	0.5 dBi typ.
Average Gain (XZ-total)	-2.0 dBi typ.
Return Loss	9.5 dB min.

Input Power	2W max.
Impedance	50 Ω
Reel Quantity	1000
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity: 45-75%RH, 18 mos. Max

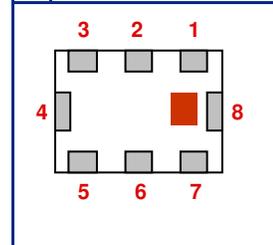
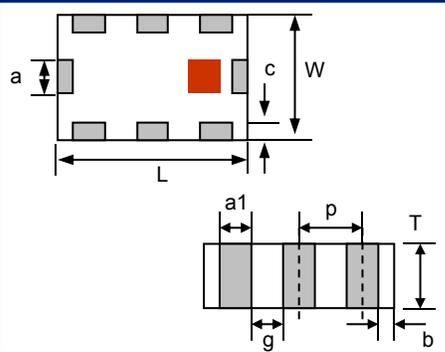
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 1575AT44A0010S
		T & R	Suffix = E	Eg. 1575AT44A0010E
	Termination Style	100% Tin	Suffix = None	Eg. 1575AT44A0010(E or S)
		Tin / Lead	Please consult Factory	
	EVb with SMA Connector	1575AT44A0010-EB1SMA		

Terminal Configuration

No.	Function
1	GND
2	NC
3	NC
4	GND
5	NC
6	NC
7	Feeding
8	GND

Mechanical Dimensions

	In	mm
L	0.177 ± 0.012	4.50 ± 0.30
W	0.122 ± 0.012	3.10 ± 0.30
T	0.059 ± 0.004	1.50 ± 0.10
a1	0.022 ± 0.008	0.55 ± 0.20
a2	0.079 ± 0.008	2.00 ± 0.20
b	0.004 min	0.1 min
c	0.012 +.004/-0.008	0.30 +0.1/-0.2
g	0.043 ± 0.006	1.10 ± 0.15
p	0.065 ± 0.008	1.65 ± 0.20



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1575MHz GPS Ultra-Compact Ceramic Chip Antenna

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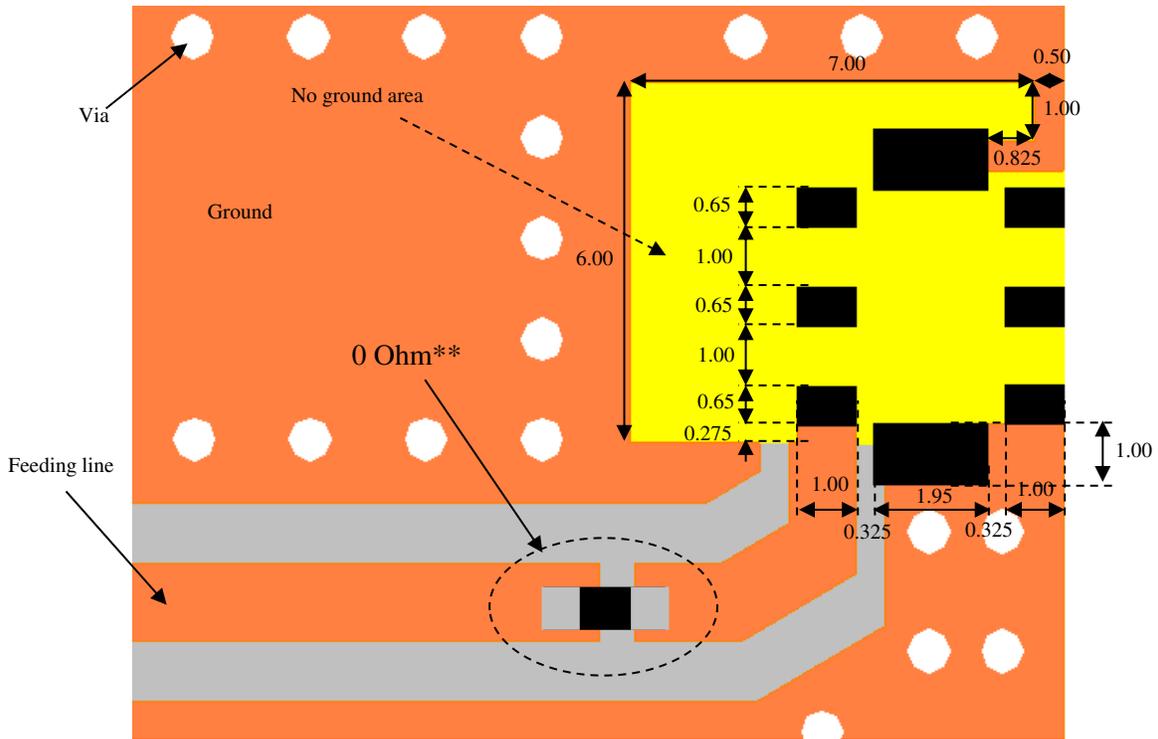
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Mounting Considerations

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

Without Matching Circuits - Units in mm



Orange Solder Resist

Black Land

**When doing the layout of your PCB make sure you leave place holders for a "shunt-series-shunt" (Pi) matching network in your preferred case size. For any further questions, contact our engineering support team at:

<http://www.johansontechnology.com/en/ask-a-technical-question.html>



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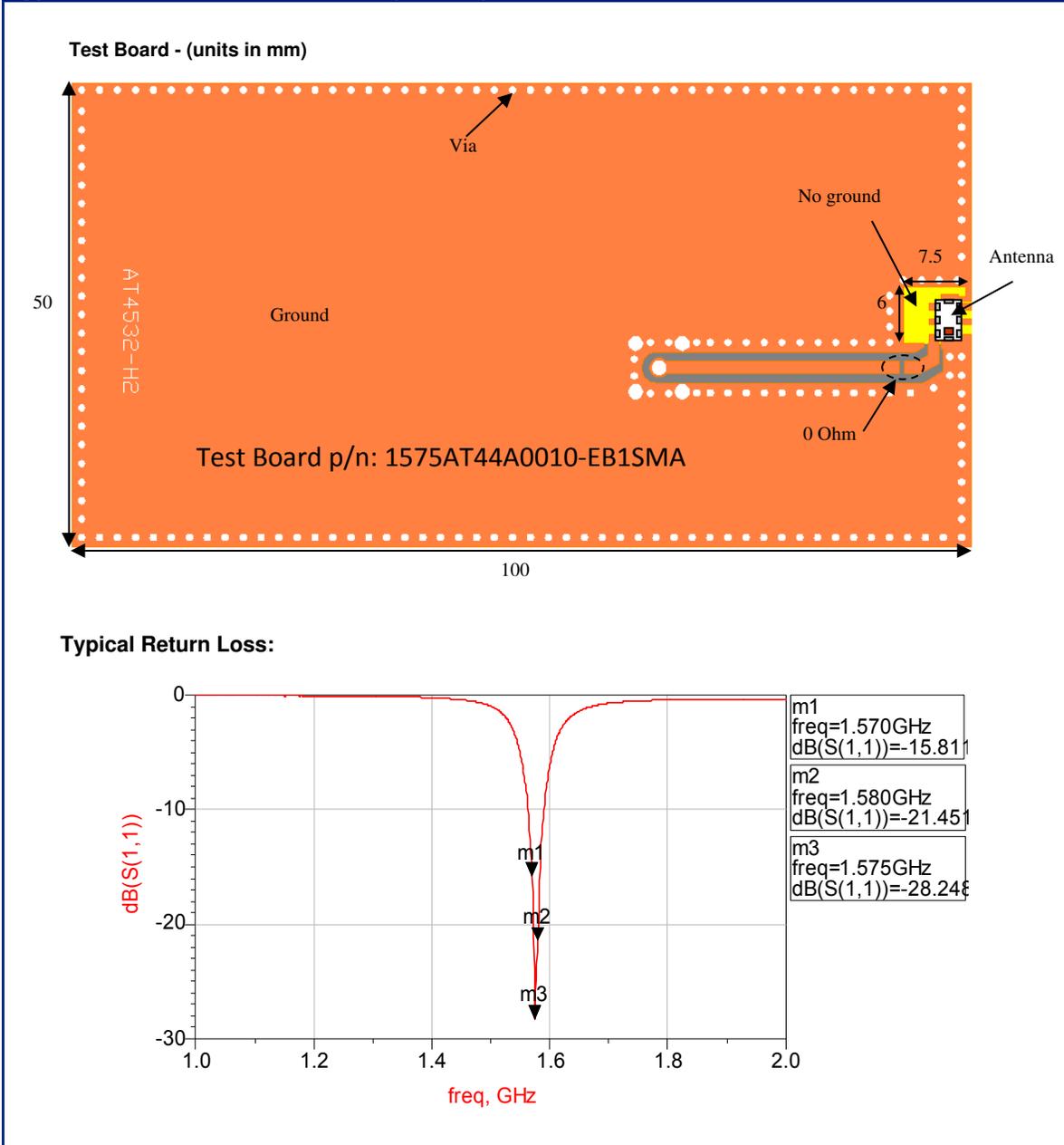
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Typical Electrical Characteristics (T=25°C)



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Preliminary

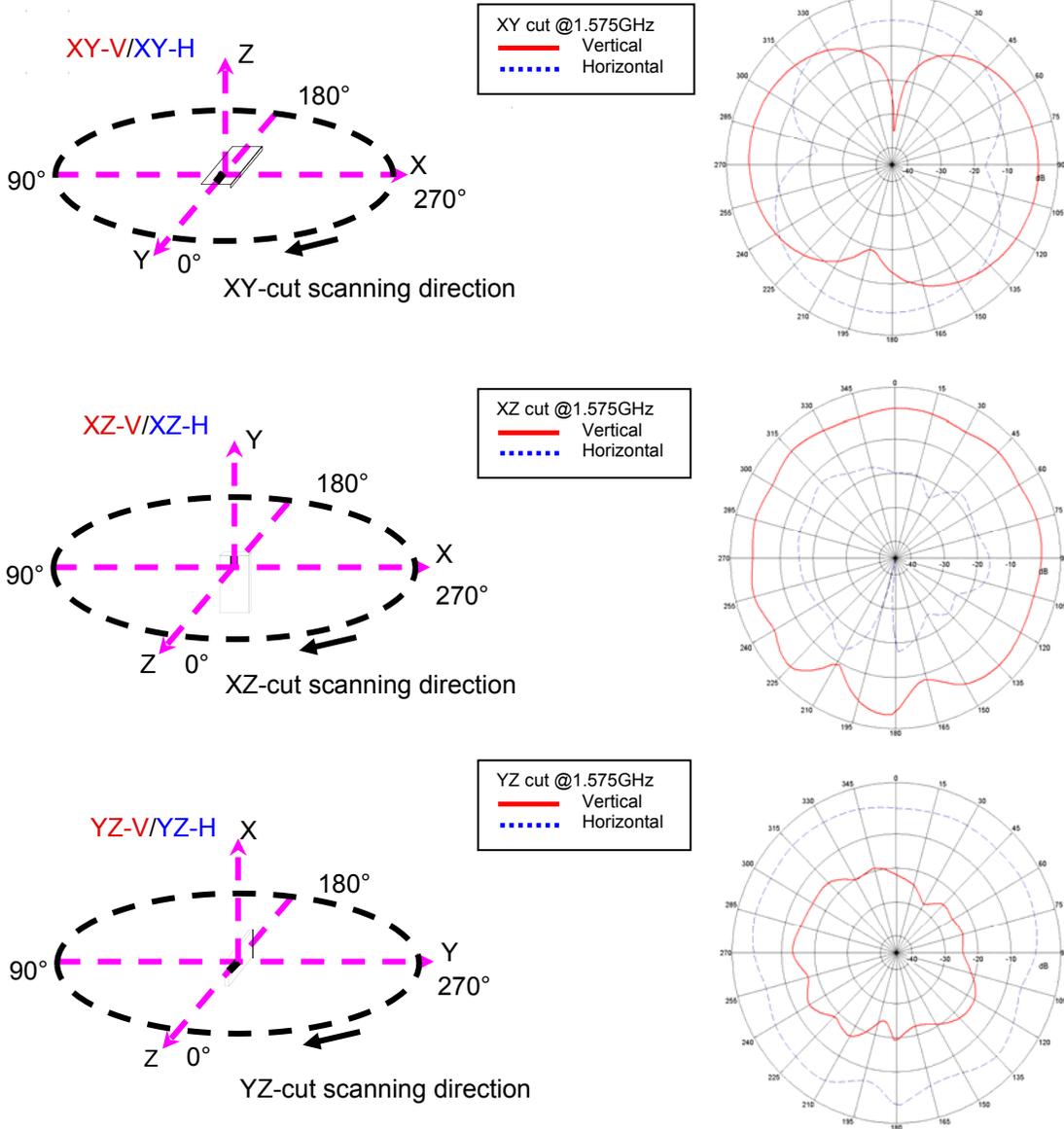
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Typical Radiation Patterns



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