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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.

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



High Frequency Ceramic Solutions

2.45 GHz SMD Chip Antenna

P/N 2450AT43A100

Detail Specification: 1/11/2013

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General Specifications - Vertical Mounting

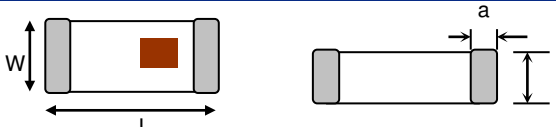
Part Number	2450AT43A100	Input Power	2W max.
Frequency Range	2400 - 2500 Mhz	Impedance	50 Ω
Peak Gain	2.0 dBi typ. (XZ-V)	Operating Temperature	-40 to +85°C
Average Gain	0.5 dBi typ. (XZ-V)	Reel Quantity	1,000
Return Loss	9.5 dB min.		

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450AT43A100S
		T & R	Suffix = E	eg. 2450AT43A100E
	Termination style	100% Tin	Suffix = None	eg. 2450AT43A100 (E or S)
		Tin / Lead	Please Consult Factory	

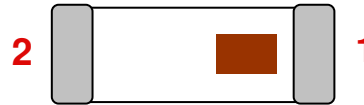
Mechanical Dimensions

	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	0.047 + .004/-0.008	1.20 + 0.1/-0.2
a	0.020 \pm 0.012	0.50 \pm 0.30



Terminal Configuration

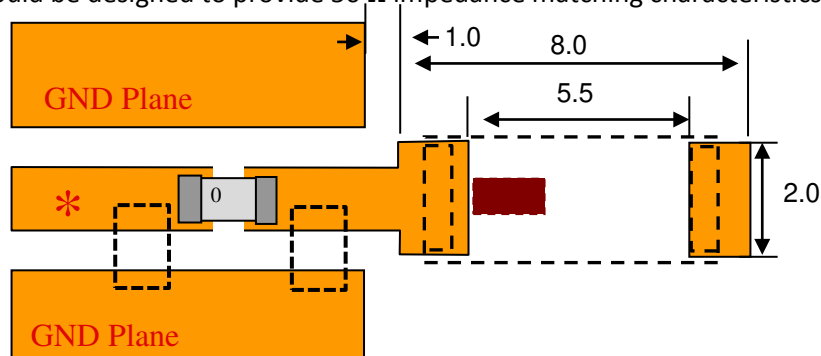
No.	Function
1	Signal Feed Terminal
2	NC (To be used as Anchoring to PCB)



Mounting Considerations - Vertical Mounting

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

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



Note: Matching components may be needed when designing into a PCB so, make sure to leave a shunt-series-shunt or "pi" network available space/footprint when laying out. More info: <http://johansontechnology.com/tuning>

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All sales are subject to Johanson Technology, Inc. terms and conditions.



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Ver 1.1

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High Frequency Ceramic Solutions

2.45 GHz SMD Chip Antenna

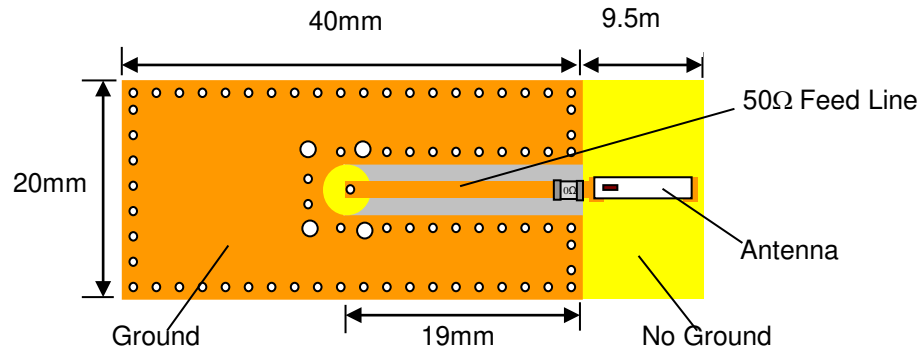
P/N 2450AT43A100

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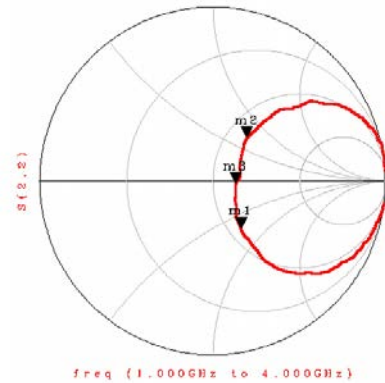
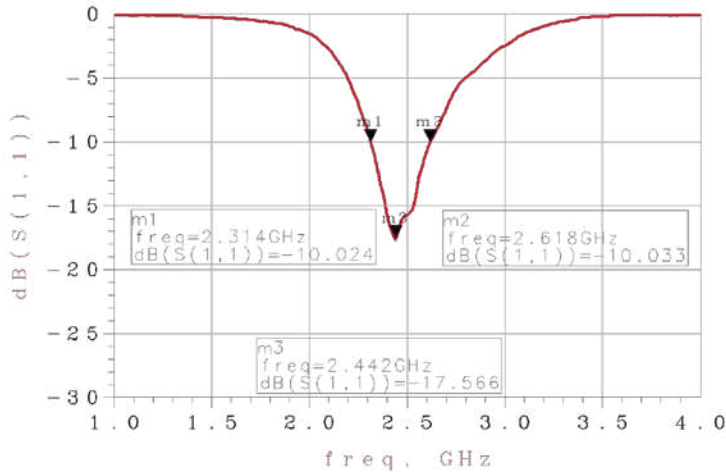
Typical Electrical Characteristics (T=25°C)

Test Board of Vertical Mounting style, p/n: 2450AT43A100-EB1SMA



* This 50ohm trace to the antenna can be shorten (considerably) to suit your PCB space constraints

Return Loss



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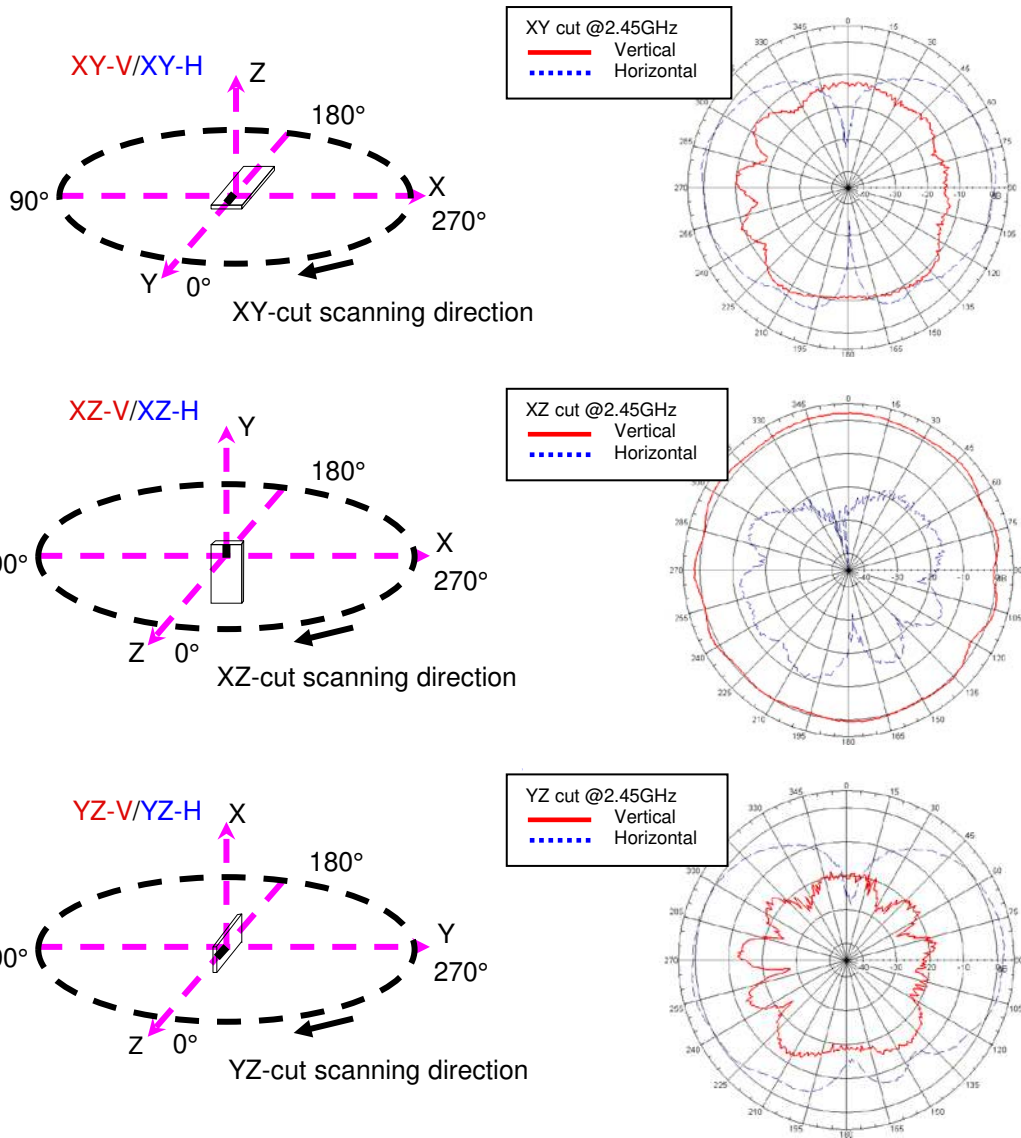
P/N 2450AT43A100

Detail Specification: 1/11/2013

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Typical Electrical Characteristics (T=25°C)

Typical Radiation Patterns on Test Board of Vertical Mounting p/n: 2450AT43A100-EB1SMA



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2.45 GHz SMD Chip Antenna

P/N 2450AT43A100

Detail Specification: 1/11/2013

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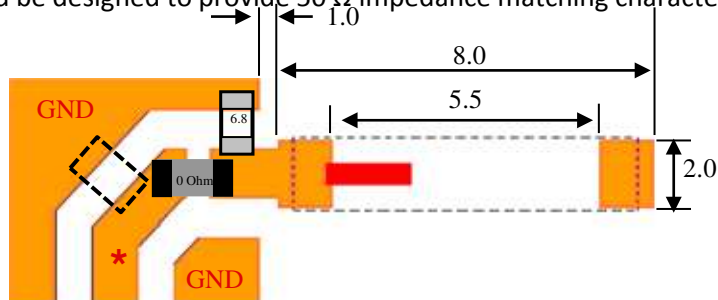
General Specifications - Horizontal Mounting

Part Number	2450AT43A100	Input Power	2W max.
Frequency Range	2400 - 2500 Mhz	Impedance	50 Ω
Peak Gain	2.0 dBi typ. (XZ-V)	Operating Temperature	-40 to +85°C
Average Gain	1.0 dBi typ. (XZ-V)	Reel Quantity	1,000
Return Loss	9.5 dB min.		

Mounting Considerations - Horizontal Mounting

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

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



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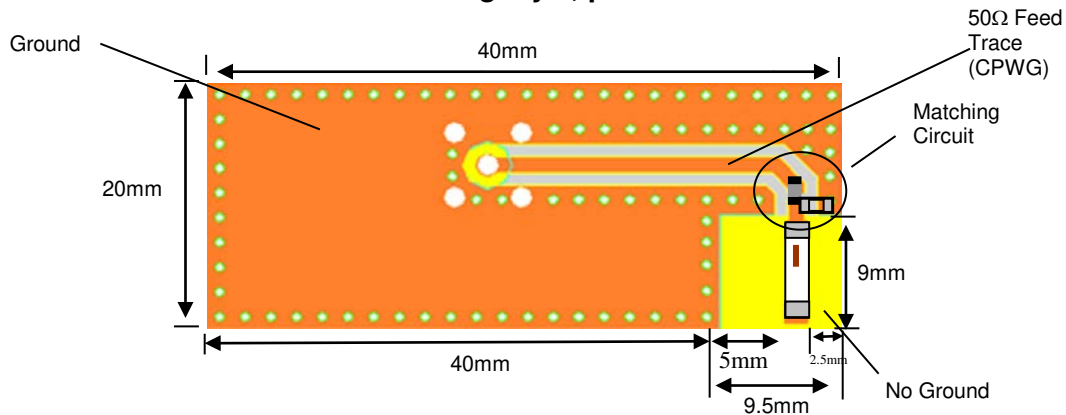
P/N 2450AT43A100

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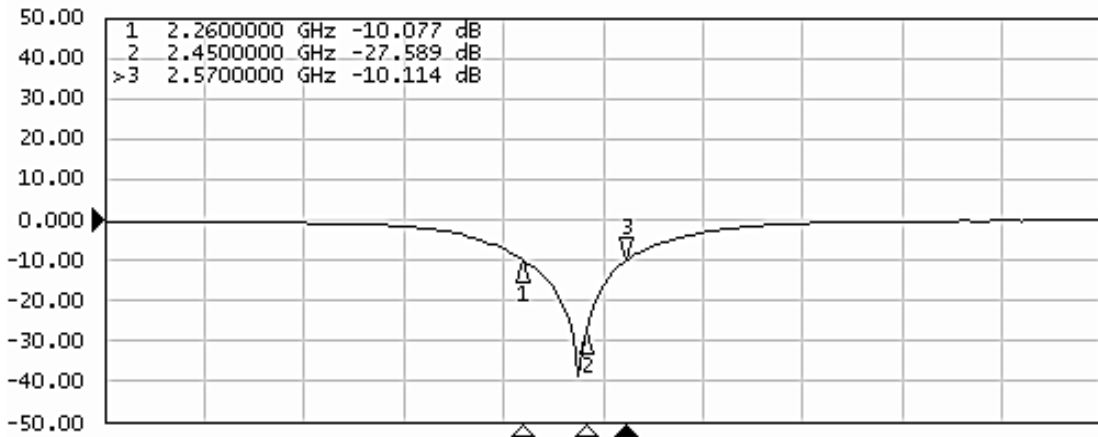
Typical Electrical Characteristics (T=25°C)

Test Board of Horizontal Mounting style, p/n: 2450AT43A100-EB2SMA



* This 50ohm trace to the antenna can be shorten (considerably) to suit your PCB space constraints

Return Loss



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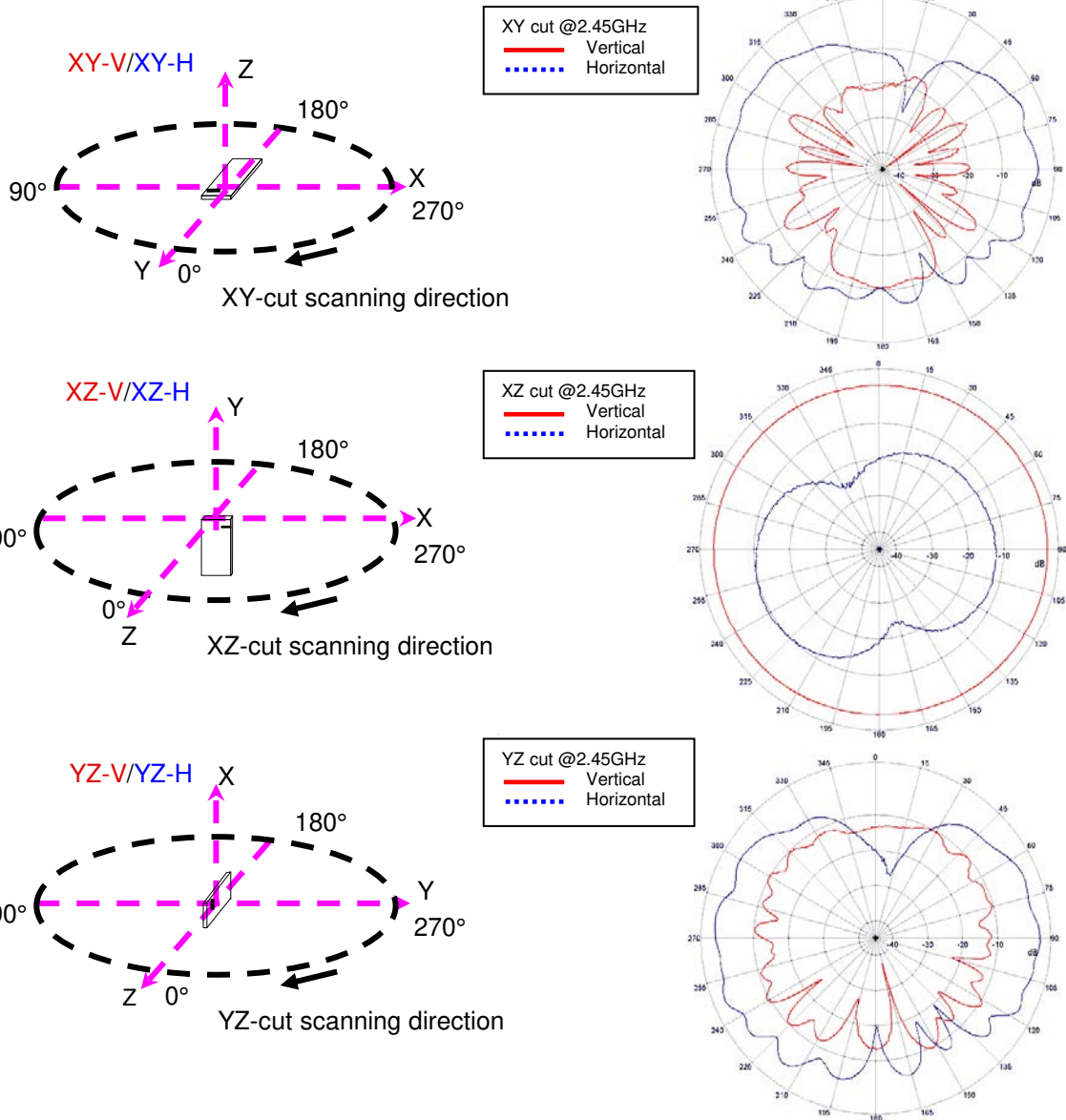
P/N 2450AT43A100

Detail Specification: 1/11/2013

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Typical Electrical Characteristics (T=25°C)

Typical Radiation Patterns on Test Board of Vertical Mounting p/n: 2450AT43A100-EB2SMA



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