### 2.45 GHz SMD Chip Antenna

P/N 2450AT43A100

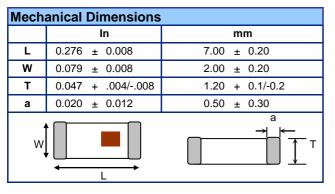
Detail Specification: 1/11/2013

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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 Quanity	1,000
Return Loss	9.5 dB min.			

#### Part Number Explanation

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

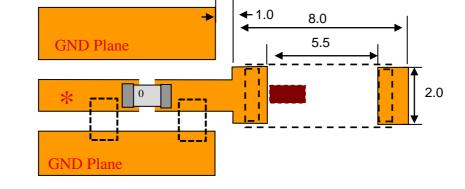


Terminal Configuration			
No.	Function		
1	Signal Feed Terminal		
2	NC (To be used as Anchoring to PCB)		
	2		

#### Mounting Considerations - Vertical Mounting

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

\* Line width should be designed to provide 50  $\Omega$  impedance matching characteristics.



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

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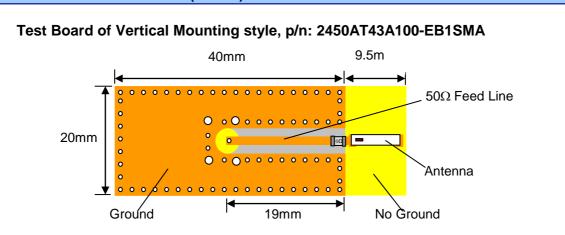
### 2.45 GHz SMD Chip Antenna

Detail Specification: 1/11/2013

P/N 2450AT43A100

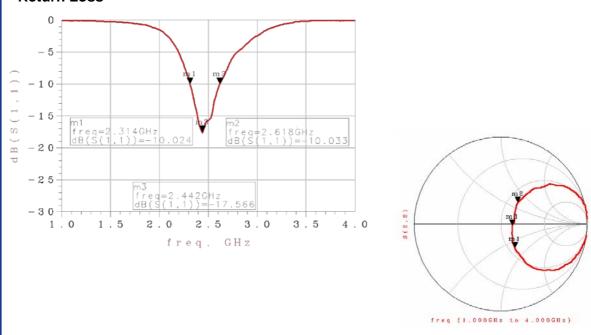
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Typical Electrical Characteristics (T=25°C)



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





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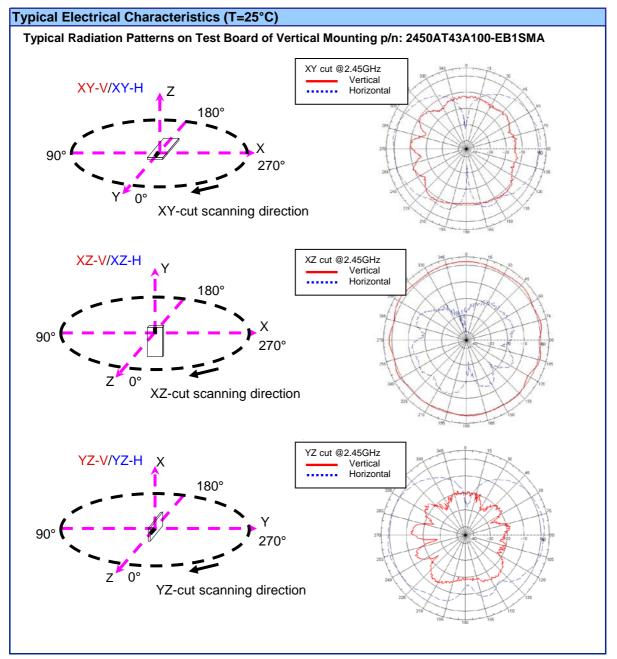
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### 2.45 GHz SMD Chip Antenna

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#### 2.45 GHz SMD Chip Antenna Detail Specification: 1/11/2013

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<b>General Specification</b>	ns - Horizontal Mounting	
Part Number	2450AT43A100	Input Power
Frequency Range	2400 - 2500 Mhz	Impedance
Peak Gain	2.0 dBi typ. (XZ-V)	Operating Temp
Average Gain	1.0 dBi typ. (XZ-V)	Reel Quanity
Return Loss	9.5 dB min.	

Input Power	2W max.	
Impedance	50 Ω	
Operating Temperature	-40 to +85°C	
Reel Quanity	1,000	

# 



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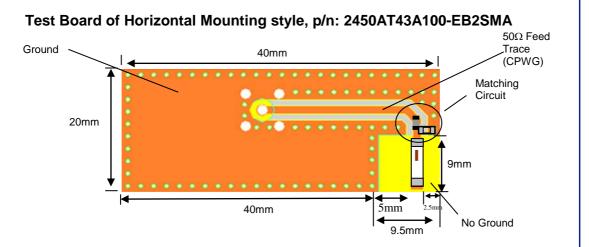
### 2.45 GHz SMD Chip Antenna

Detail Specification: 1/11/2013

P/N 2450AT43A100

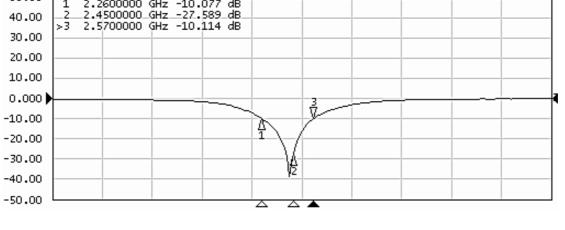
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#### Typical Electrical Characteristics (T=25°C)



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

#### **Return Loss** 50.00 2.2600000 GHz -10.077 dB 2.4500000 GHz -27.589 dB 1 2 40.00 2.5700000 GHz -10.114 dB >3 30.00



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### 2.45 GHz SMD Chip Antenna

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Detail Specification: 1/11/2013



Typical Electrical Characteristics (T=25°C) Typical Radiation Patterns on Test Board of Vertical Mounting p/n: 2450AT43A100-EB2SMA XY cut @2.45GHz Vertical XY-V/XY-H Ζ Horizontal 180° X 90° 270° 0° XY-cut scanning direction XZ-V/XZ-H XZ cut @2.45GHz Vertical ..... Horizontal 180° Х 90° 270° 0° Ζ XZ-cut scanning direction YZ cut @2.45GHz YZ-V/YZ-H Х Vertical . . . . . . . Horizontal 180° 90° 270° 0° 7 YZ-cut scanning direction

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