"High Frequency Ceramic Solutions"

2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design Detail Specification: 9/17/2015

P/N 2450AT18D0100 Page 1 of 6

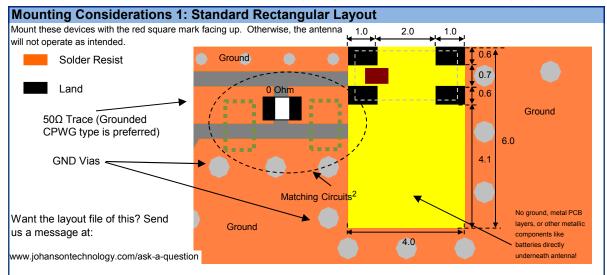
This antenna is optimal for edge middle mounting; rectangular and circular PCB shape applications, go to pages 2-4 for more info.

General Specifications					
Part Number	2450AT18D0100 Input/Output Power		2W max. (CW)		
Frequency (MHz)	2400 - 2500	Impedance	50 Ω		
Peak Gain	1.5 dBi typ. (XZ-total)	Reel Quantity	3,000		
Average Gain	-1.0 dBi typ. (XZ-total)	Storage Temp	-40 to +85°C		
Return Loss	10.0 dB min.	Total Radiation Efficiency ¹	72%		
Operating Temperature	-40 to +125°C	¹ Efficiency measured on 2450AT18D0100-EB1SMA 40x20mm EVB on page 2			

No	D Terminal Function			4 3	
1	Feeding Point	3	GND		~~7. Q
2	GND	4	GND	1 2	

	Mechanical Specifications						
	In	mm					
L	0.126 ± 0.008	3.20 ± 0.20					
W	0.063 ± 0.008	1.60 ± 0.20					
Т	0.047 ± 0.008	1.20 ± 0.20					
а	0.012 ± .004/008	0.30 ± 0.1/-0.2					
b	0.020 ± 0.008	0.50 ± 0.20	L				

Need help designing the antenna in? Use our antenna design services! www.johansontechnology.com/ipcantennaservices 2 Free layout reviews and if you need us to tune and characterize our antenna on your design (anechoic chamber) we can do that too (lab fee may apply for the latter).



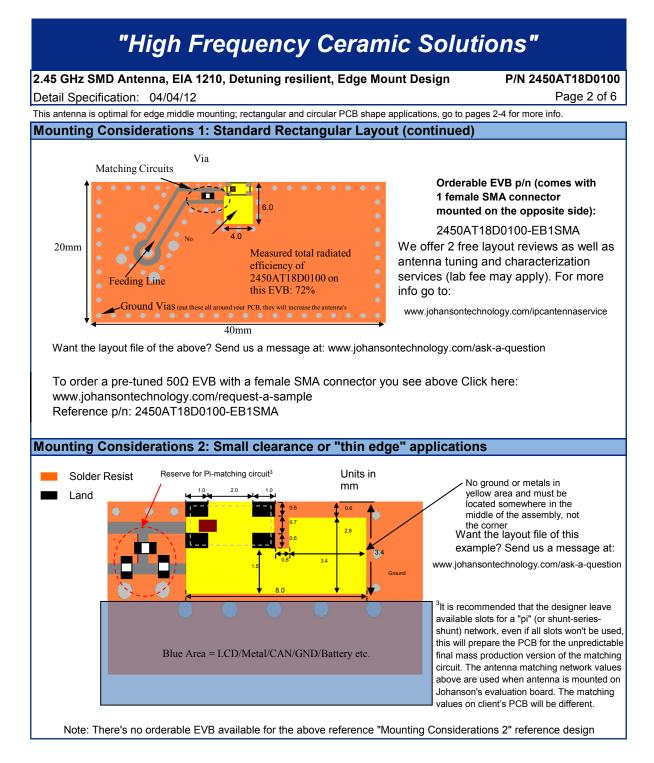
²It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network, even if all slots won't be used, this will prepare the PCB for the final mass production values of the matching circuit. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different. Go to: http://johansontechnology.com/tuning and see how to obtain the new values yourself if you have a network analyzer.

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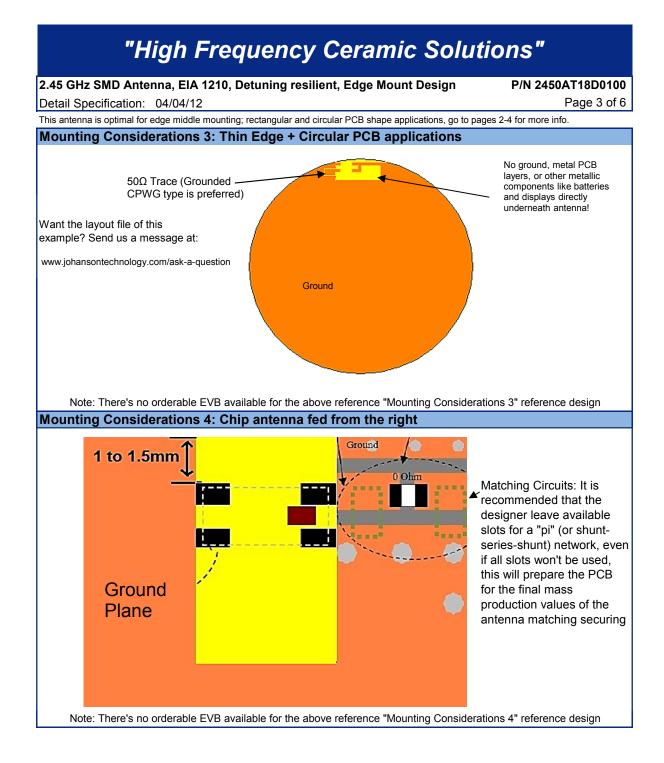




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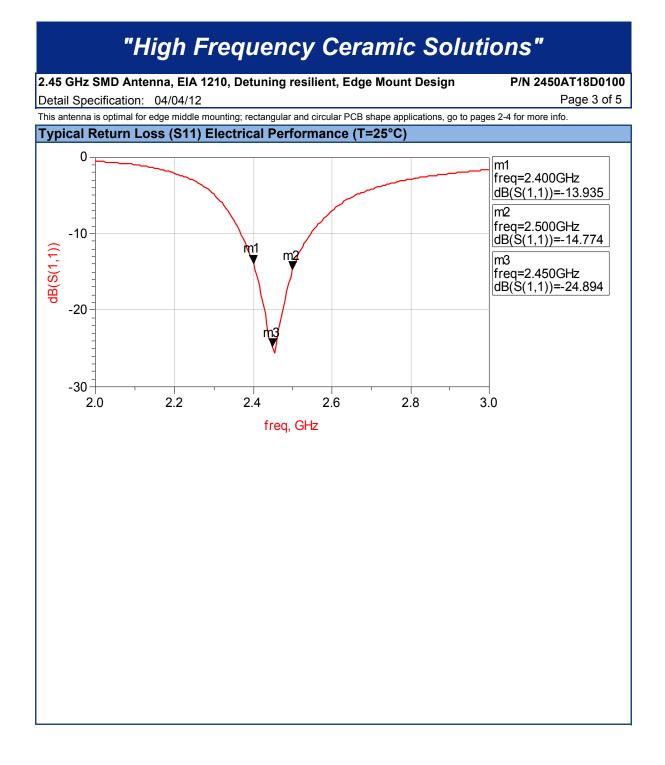




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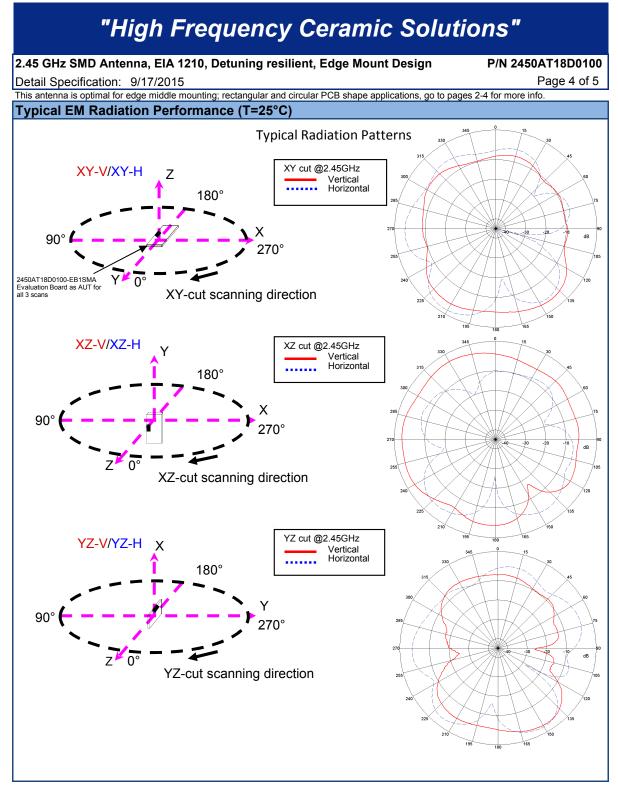


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2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design P/N 2450AT18D0100					
Detail Specificati	Detail Specification: 9/17/2015 Page 5 c				
This antenna is optima	This antenna is optimal for edge middle mounting; rectangular and circular PCB shape applications, go to pages 2-4 for more info.				
Part Number Explanation					
P/N Suffix	Packing Style	Bulk	Suffix = S	eg.2450AT18D0100S	
		T&R	Suffix = E	e.g 2450AT18D0100E	
	EVB p/n	2450AT18D0100-EB1SMA			
Recommended Storage Conditions of <u>uninstalled</u> product still on T&R		+5 ~ +35 °C, Humidity 45~75%RH, 18 mos. Max			

Antenna layout review, tuning, and characterization services www.johansontechnology.com/ipcantennaservices

More SMD Chip Antennas at:

www.johansontechnology.com/antennas

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques (How to obtain the new antenna matching values) www.johansontechnology.com/tuning

Packaging information

www.johansontechnology.com/ipcpackaging.html

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

P/N Explanation and Breakdown

www.johansontechnology.com/ipc-pn-explained

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