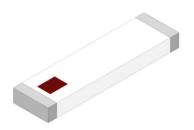
Sub-GHz / 2.4GHz Dual-band Antenna, Single Feed

P/N: 0900AD54B2450

Detail Specification: 12/7/2018 Page 1 of 6

General Specifications						
Part Number	0900AD54B2450					
Frequency (MHz)	868 - 928	2400 - 2480				
Return Loss (dB)	6.5 typ.	6.5 typ.				
Peak Gain (dBi)*	1.1 typ.	1.7 typ.				
Average Gain (dBi)*	-2.4 typ.	-1.5 typ.				
Efficiency*	51%	62%				
Power Capacity (W)	3 max. (CW)					
Quantity/Reel	500 pcs					
Operating Temperature	-40°C to +85°C (may be expanded, ask us how)					
Storage Conditions for unused product on T&R and max shelf period	+5 to +35 °C Humidity 45 - 75%RH 18 months max					

^{*}Performance based on antenna evaluation board illustrated on page 2

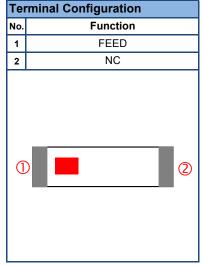


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Part Number Explanation						
P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 0900AD54B2450S		
		T&R	Suffix = E	eg. 0900AD54B2450E		
		100% Tin	Suffix = None	eg. 0900AD54B2450(E or S)		
	Evaluation Boards	0900AD54B2450-EB1SMA				

Ме	Mechanical Dimensions						
	In	mm					
L	0.591 ± 0.008	15.00 ± 0.2	↑				
W	0.157 ± 0.008	4.00 ± 0.2	W				
Т	0.059 ± 0.008	1.50 ± 0.2	1				
а	0.039 ± 0.012	1.00 ± 0.3	L				
			Top View				
	Side Viev	v	Bottom View				

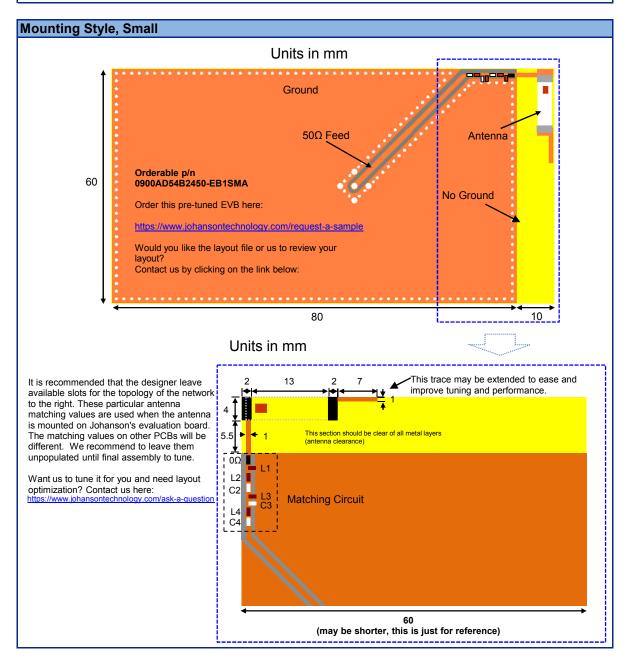




Sub-GHz / 2.4GHz Dual-band Antenna, Single Feed

P/N: 0900AD54B2450

Detail Specification: 12/7/2018 Page 2 of 6





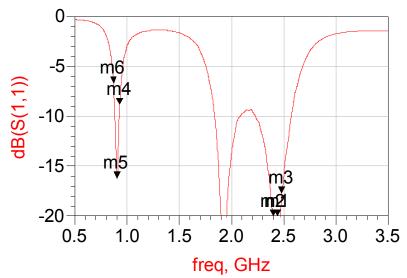
Sub-GHz / 2.4GHz Dual-band Antenna, Single Feed

P/N: 0900AD54B2450

Detail Specification: 12/7/2018 Page 3 of 6



Evaluation Board p/n: 0900AD54B2450-EB1SMA



m6 freq=868.0MHz dB(S(1,1))=-6.722

m5 freq=900.0MHz dB(S(1,1))=-16.237

m4 freq=928.0MHz dB(S(1,1))=-8.819

m2 freq=2.400GHz dB(S(1,1))=-20.252

m1 freq=2.440GHz dB(S(1,1))=-23.639

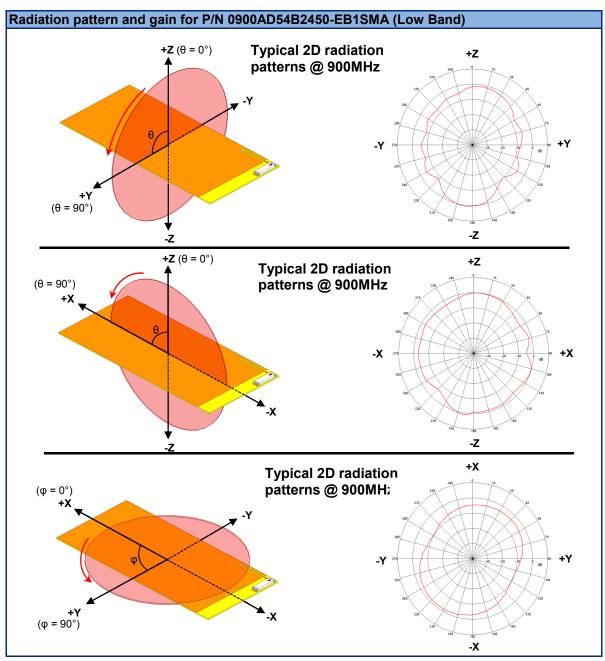
m3 freq=2.480GHz dB(S(1,1))=-17.712

To order a pre-tuned 50Ω EVB with a female SMA connector go here: https://www.johansontechnology.com/request-a-sample Reference p/n: **0900AD54B2450-EB1SMA**



Sub-GHz / 2.4GHz Dual-band Antenna, Single Feed P/N: 0900AD54B2450

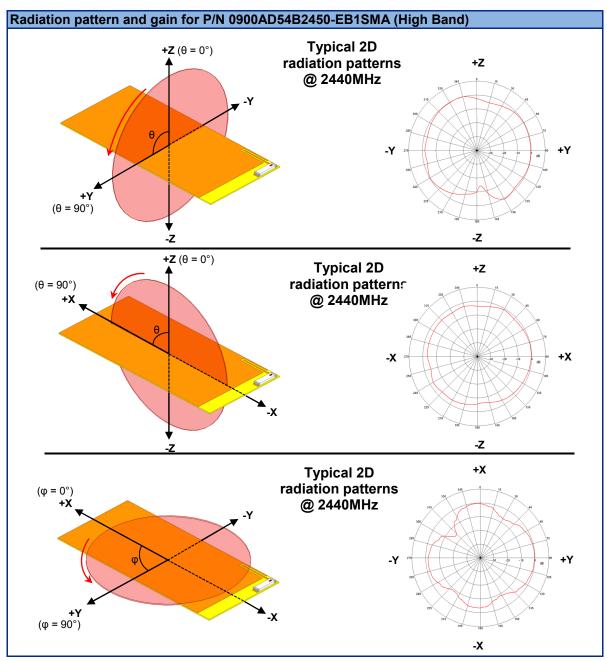
Detail Specification: 12/7/2018 Page 4 of 6





Sub-GHz / 2.4GHz Dual-band Antenna, Single Feed P/N: 0900AD54B2450

Detail Specification: 12/7/2018 Page 5 of 6





Sub-GHz / 2.4GHz Dual-band Antenna, Single Feed P/N: 0900AD54B2450

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Antenna tuning, optimization, and validation services:

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For more antennas and to download measured S-parameters, go to:

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Soldering Information

https://www.johansontechnology.com/ipcsoldering-profile

MSL Info

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