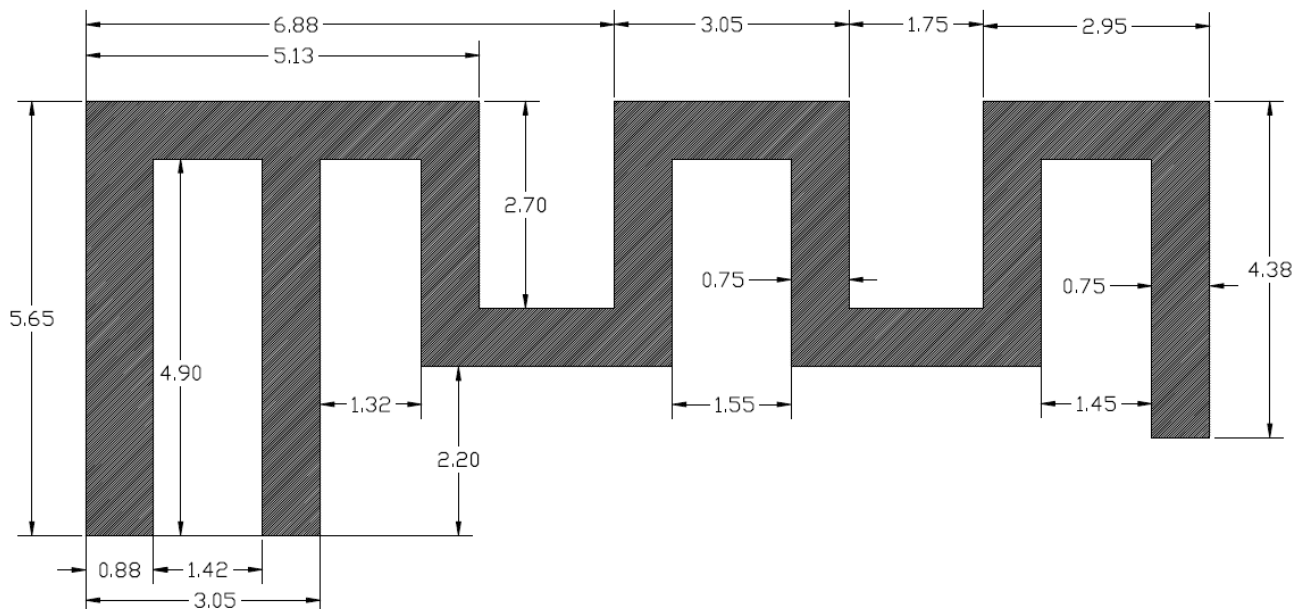


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Antenna Specification

Antenna Information	
Manufacturer	Dong Guan City Shang Jiao Fu Chuen Electronics Limited
Prepared by	Shenzhen Arden Technology Limited
Model	ESP-ANT B
Use on Device	Mini V2
Frequency Range	2402-2502MHz
Max Antenna Gain	3.37dBi
Efficiency	63.35% dB

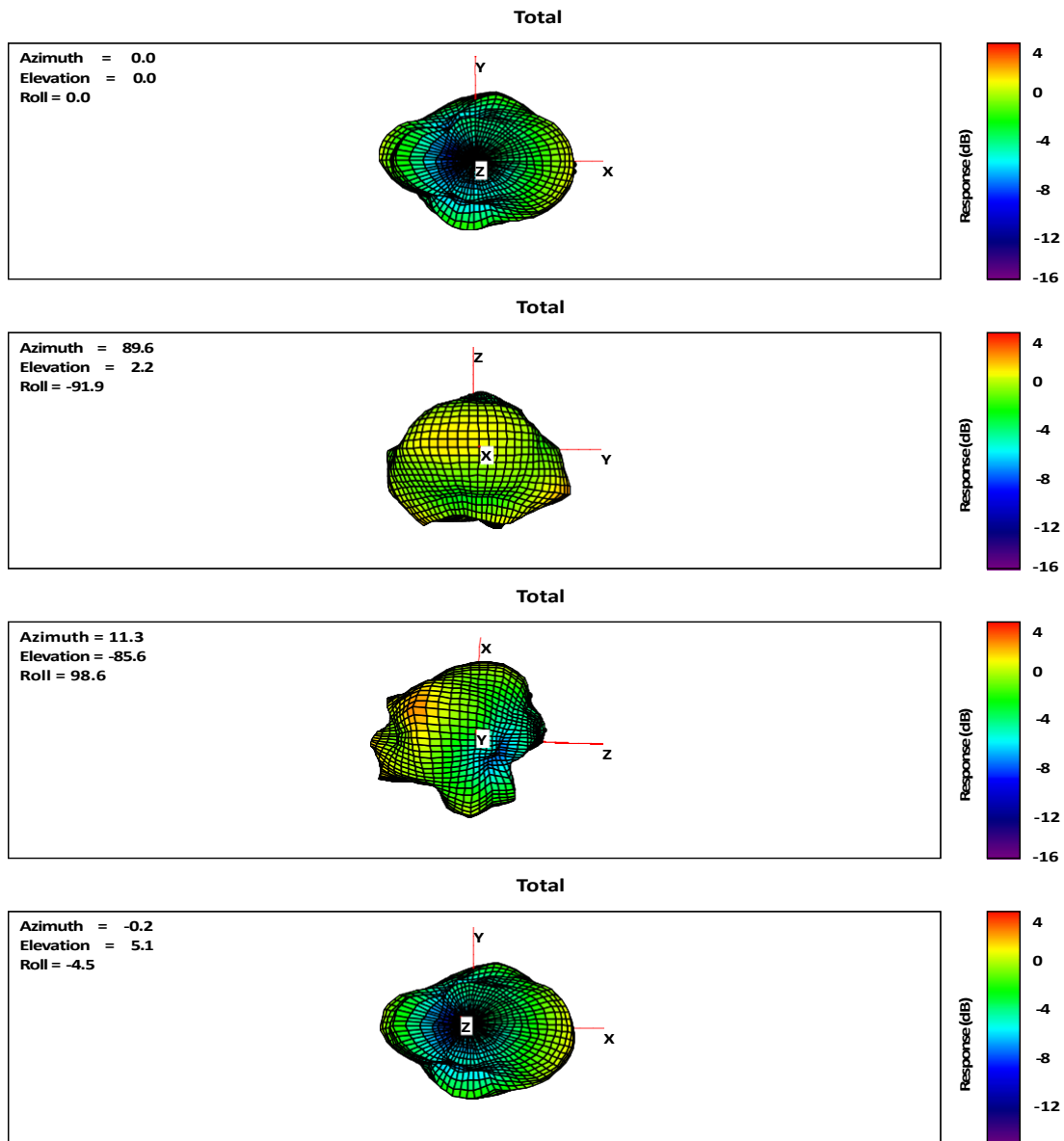
Antenna Layout & module on the system board (mm)



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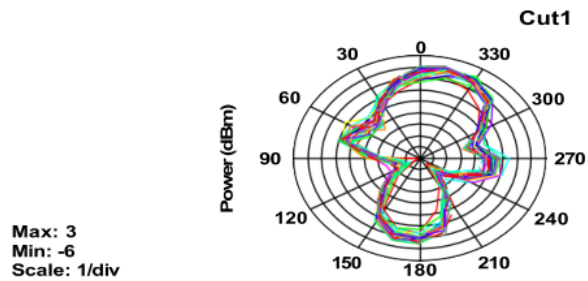
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3-D Pattern Plots

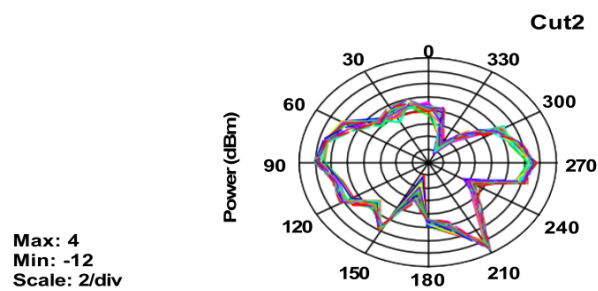


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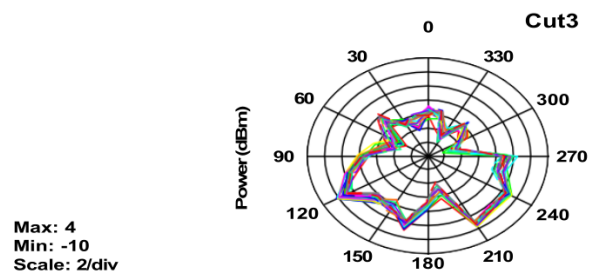
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2402 MHz	2452 MHz	2502 MHz
2407 MHz	2457 MHz	
2412 MHz	2462 MHz	
2417 MHz	2467 MHz	
2422 MHz	2472 MHz	
2427 MHz	2477 MHz	
2432 MHz	2482 MHz	
2437 MHz	2487 MHz	
2442 MHz	2492 MHz	
2447 MHz	2497 MHz	



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2437 MHz	2487 MHz	
2442 MHz	2492 MHz	
2447 MHz	2497 MHz	

2402MHz ~2502 MHz 2.4G 3D Gain

Gain and Efficiency

Model	Test State	Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Note
ESP-ANT B	Free Space	2402	-1.98	63.44	2.73	15°
		2407	-1.76	66.66	2.73	
		2412	-1.70	67.68	3.16	
		2417	-1.60	69.11	2.92	
		2422	-1.61	68.95	2.79	
		2427	-1.77	66.48	2.29	
		2432	-1.83	65.54	2.54	
		2437	-1.73	67.21	2.46	
		2442	-1.77	66.46	2.56	
		2447	-1.79	66.25	2.69	
		2452	-1.75	66.81	2.95	
		2457	-1.76	66.73	2.96	
		2462	-1.68	67.91	2.99	
		2467	-1.95	63.90	3.17	
		2472	-2.07	62.14	3.08	
		2477	-1.87	65.00	3.18	
		2482	-1.94	63.96	3.26	
		2487	-1.98	63.35	3.37	
		2492	-1.82	65.80	3.35	
		2497	-1.72	67.34	3.17	
		2502	-1.75	66.79	3.18	

----- End -----