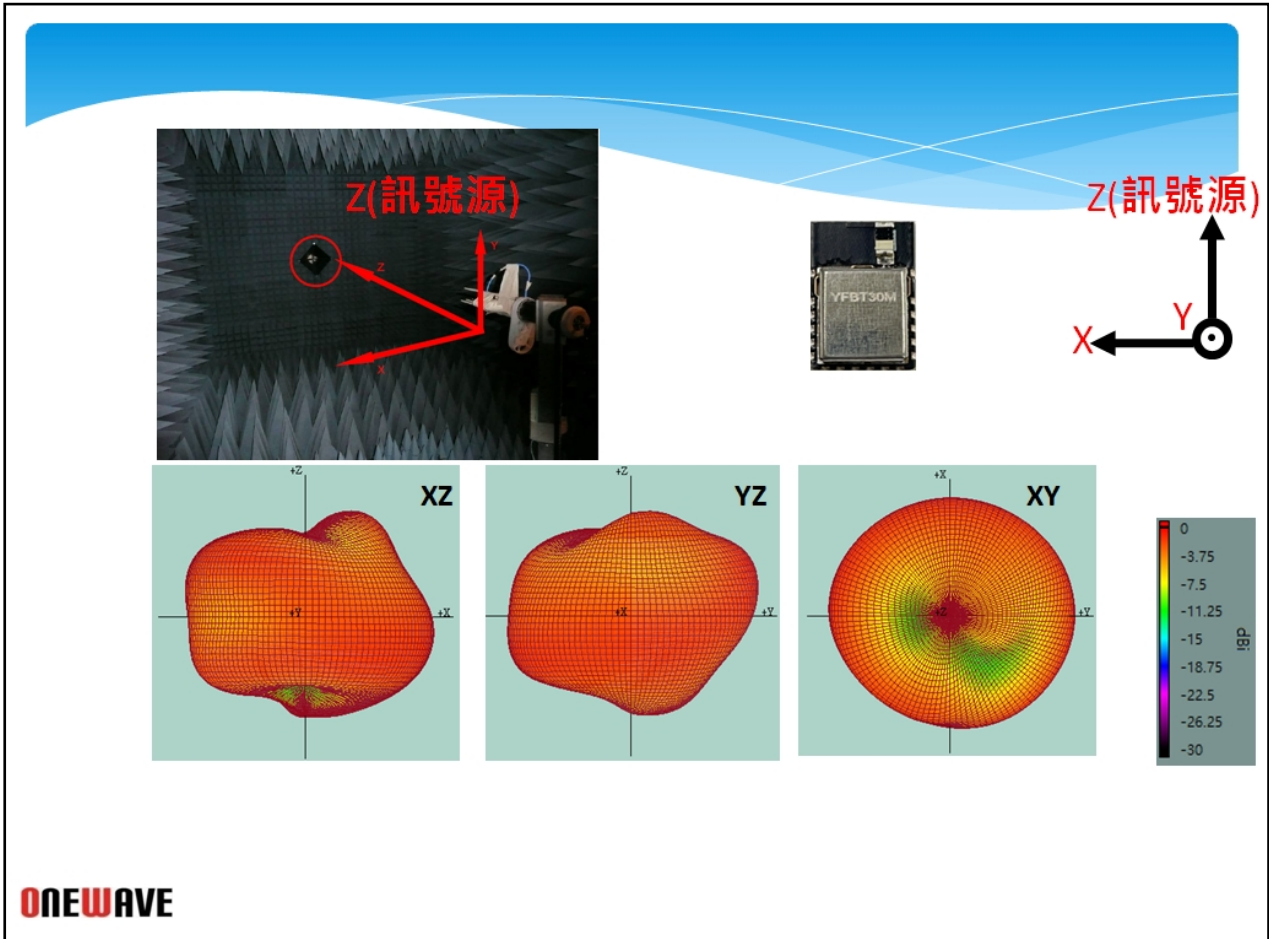


Antenna Specification

- Details of Antenna

Manufacture	ONEWAVE
Antenna Type	Chip Antenna
Part Number	WAN3216F245W36
Description	Chip Antenna 3216 M-Ant 2.45G Type 36

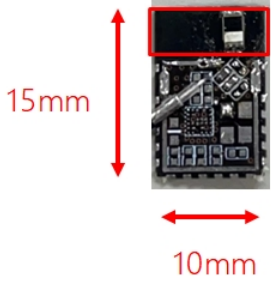
- Antenna Radiation Pattern



- **Antenna Placement**

Antenna Matching

- Antenna Placement

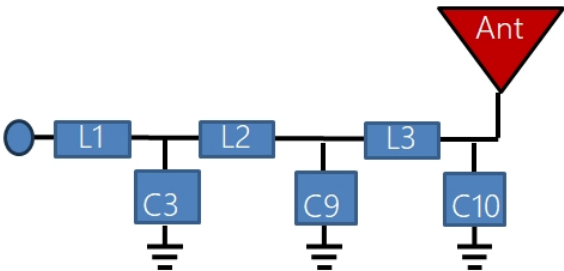


15mm

10mm

- Keep Out Area(Red Box) 10mm x 5mm.

	Model.
Ant.	WAN3216F245W36



Ant

L1, L2, L3, C3, C9, C10



• Data

Frequency (MHz)	Tot. Rad. Pwr. (dBi)	Peak EIRP (dBi)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Min EIRP (dBi)	Peak Phi Angle	Peak Theta Angle	Min Phi Angle	Min Theta Angle	Front/Back Ratio (dB)	E-Plane BW	#NAME?	#NAME?	H-Plane BW	#NAME?	#NAME?	Upper Hem. TRP	Upper Hem. PRP	Lower Hem. TRP	Lower Hem. PRP
2400	-4.904	-1.288	3.616	-4.904	32.331	-1.288	-20.238	30	90	90	30	-4.167	61.154	120.872	59.718	69.325	297.064	227.738	-5.554	-8.565	-4.338	-7.348
2410	-4.832	-1.069	3.763	-4.832	32.87	-1.069	-19.719	30	90	90	30	-4.204	61.092	120.795	59.703	57.587	295.489	237.901	-5.45	-8.46	-4.291	-7.301
2420	-4.353	-0.532	3.82	-4.353	36.705	-0.532	-18.484	30	90	270	30	-4.153	61.246	120.907	59.661	59.734	294.2	234.466	-4.924	-7.935	-3.848	-6.858
2430	-4.006	-0.209	3.797	-4.006	39.755	-0.209	-17.598	30	90	270	30	-4.049	60.719	120.685	59.966	72.972	293.402	220.43	-4.519	-7.529	-3.547	-6.558
2440	-3.977	-0.235	3.742	-3.977	40.02	-0.235	-17.603	30	90	0	150	-4.015	60.428	120.112	59.684	88.13	292.924	204.795	-4.429	-7.439	-3.568	-6.578
2450	-3.992	-0.274	3.718	-3.992	39.887	-0.274	-19.275	30	90	0	150	-4.068	59.746	119.667	59.921	99.416	292.429	193.013	-4.402	-7.413	-3.617	-6.627
2460	-4.152	-0.392	3.761	-4.152	38.437	-0.392	-21.71	30	90	0	150	-4.187	60.127	119.276	59.149	105.98	291.979	185.999	-4.55	-7.56	-3.788	-6.799
2470	-4.479	-0.66	3.819	-4.479	35.653	-0.66	-23.931	30	90	0	150	-4.317	60.632	118.997	58.365	108.147	291.454	183.307	-4.876	-7.886	-4.115	-7.126
2480	-5.115	-1.224	3.891	-5.115	30.799	-1.224	-23.661	30	90	0	150	-4.423	60.805	118.786	57.981	107.908	291.063	183.155	-5.517	-8.527	-4.746	-7.757
2490	-5.819	-1.781	4.038	-5.819	26.188	-1.781	-21.373	30	90	0	150	-4.677	59.489	118.556	59.066	110.404	291.493	181.088	-6.199	-9.21	-5.469	-8.48
2500	-6.162	-1.921	4.241	-6.162	24.199	-1.921	-19.584	30	90	0	150	-5.211	58.3	117.937	59.637	122.076	293.154	171.078	-6.453	-9.463	-5.89	-8.9