

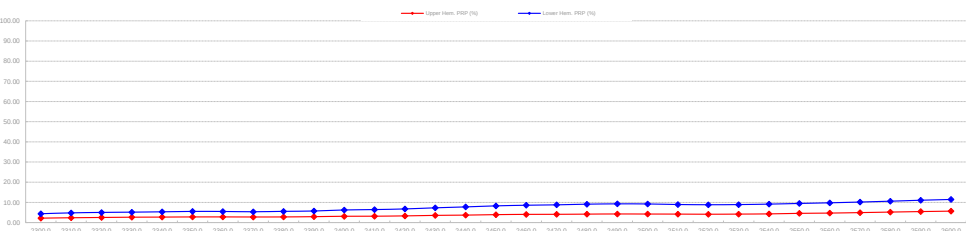
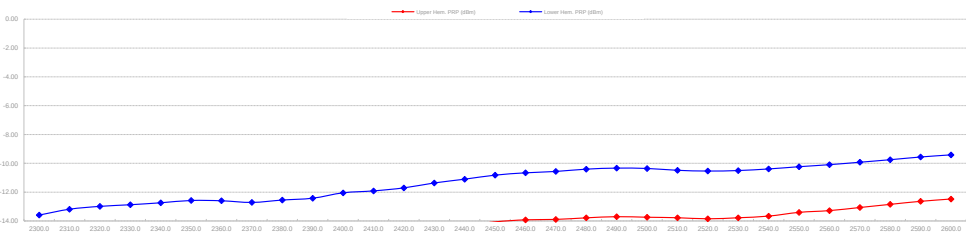
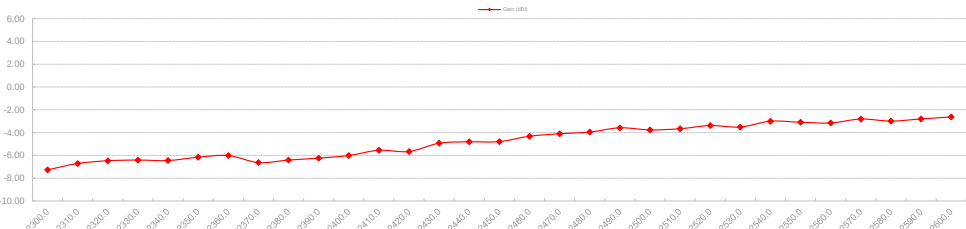
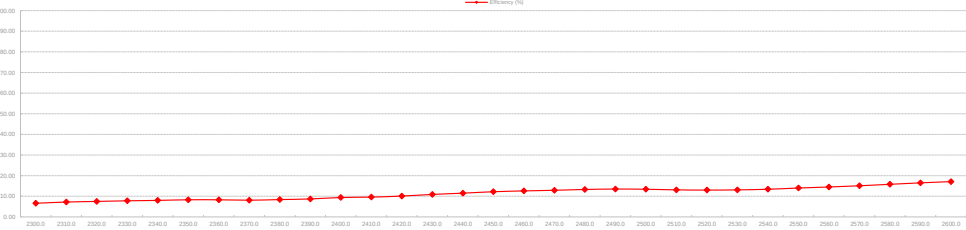
Antenna datasheet

Antenna type: Integral antenna

Manufacturer: Newland Auto-ID Tech. Co., Ltd.

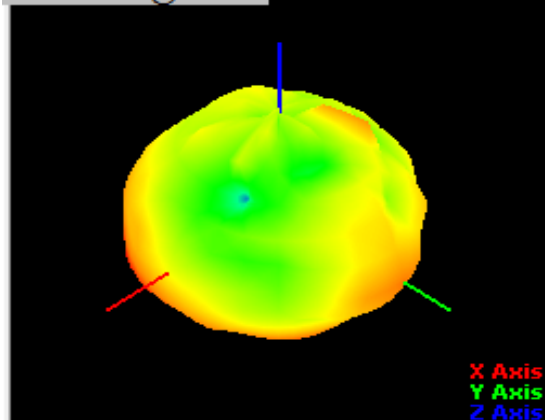
No.1 Rujiang West Rd., Mawei, Fuzhou, Fujian 350015, China

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Frequency (MHz)	2300.0	2310.0	2320.0	2330.0	2340.0	2350.0	2360.0	2370.0	2380.0	2390.0	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	2510.0	2520.0	2530.0	2540.0	2550.0	2560.0	2570.0	2580.0	2590.0	2600.0	
Point Values																																
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Tot. Rad. Pwr. (dBm)	-11.83	-11.44	-11.22	-11.07	-10.95	-10.80	-10.81	-10.90	-10.78	-10.63	-10.29	-10.18	-9.98	-9.64	-9.41	-9.14	-8.98	-8.91	-8.76	-8.69	-8.72	-8.82	-8.87	-8.83	-8.72	-8.53	-8.39	-8.21	-8.02	-7.82	-7.67	
Peak EIRP (dBm)	-7.27	-6.71	-6.47	-6.41	-6.45	-6.16	-6.01	-6.63	-6.41	-6.24	-6.01	-5.55	-5.66	-4.93	-4.81	-4.79	-4.32	-4.10	-3.95	-3.58	-3.76	-3.66	-3.38	-3.51	-3.00	-3.09	-3.15	-2.81	-2.99	-2.80	-2.62	
Directivity (dBi)	4.56	4.73	4.75	4.66	4.50	4.65	4.80	4.28	4.37	4.39	4.27	4.64	4.32	4.71	4.60	4.35	4.66	4.80	4.81	5.11	4.96	5.16	5.49	5.31	5.71	5.44	5.24	5.40	5.03	5.03	5.05	
Efficiency (dB)	-11.83	-11.44	-11.22	-11.07	-10.95	-10.80	-10.81	-10.90	-10.78	-10.63	-10.29	-10.18	-9.98	-9.64	-9.41	-9.14	-8.98	-8.91	-8.76	-8.69	-8.72	-8.82	-8.87	-8.83	-8.72	-8.53	-8.39	-8.21	-8.02	-7.82	-7.67	
Efficiency (%)	6.60	7.20	7.50	7.80	8.00	8.30	8.30	8.10	8.40	8.70	9.40	9.60	10.10	10.90	11.50	12.20	12.60	12.90	13.30	13.50	13.40	13.10	13.00	13.10	13.40	14.00	14.50	15.10	15.80	16.50	17.10	
Gain (dBi)	-7.27	-6.71	-6.47	-6.41	-6.45	-6.16	-6.01	-6.63	-6.41	-6.24	-6.01	-5.55	-5.66	-4.93	-4.81	-4.79	-4.32	-4.10	-3.95	-3.58	-3.76	-3.66	-3.38	-3.51	-3.00	-3.09	-3.15	-2.81	-2.99	-2.80	-2.62	
NHPRP ±Pi/4 (dBm)	-13.16	-12.76	-12.54	-12.35	-12.21	-12.06	-12.06	-12.12	-12.00	-11.83	-11.48	-11.39	-11.17	-10.85	-10.63	-10.36	-10.23	-10.17	-10.03	-9.99	-10.04	-10.15	-10.23	-10.18	-10.11	-9.91	-9.78	-9.61	-9.40	-9.22	-9.07	
NHPRP ±Pi/6 (dBm)	-14.69	-14.27	-14.05	-13.83	-13.68	-13.51	-13.53	-13.58	-13.45	-13.31	-12.97	-12.89	-12.69	-12.36	-12.12	-11.86	-11.75	-11.69	-11.57	-11.52	-11.56	-11.67	-11.76	-11.73	-11.66	-11.43	-11.29	-11.12	-10.90	-10.73	-10.57	
NHPRP ±Pi/8 (dBm)	-15.87	-15.47	-15.25	-15.02	-14.85	-14.67	-14.72	-14.76	-14.61	-14.50	-14.15	-14.07	-13.87	-13.55	-13.27	-13.01	-12.91	-12.84	-12.74	-12.68	-12.71	-12.83	-12.93	-12.92	-12.85	-12.59	-12.46	-12.30	-12.08	-11.92	-11.74	
Upper Hem. PRP (dBm)	-16.60	-16.24	-15.99	-15.76	-15.66	-15.55	-15.53	-15.58	-15.54	-15.34	-15.06	-15.02	-14.81	-14.49	-14.33	-14.06	-13.92	-13.89	-13.78	-13.70	-13.74	-13.78	-13.85	-13.78	-13.66	-13.40	-13.28	-13.07	-12.85	-12.64	-12.48	
Lower Hem. PRP (dBm)	-13.59	-13.19	-12.99	-12.87	-12.74	-12.58	-12.60	-12.71	-12.55	-12.42	-12.05	-11.91	-11.70	-11.36	-11.10	-10.82	-10.66	-10.56	-10.40	-10.33	-10.36	-10.48	-10.54	-10.50	-10.39	-10.24	-10.09	-9.93	-9.75	-9.56	-9.41	
Upper Hem. PRP (%)	2.19	2.38	2.52	2.66	2.71	2.79	2.80	2.77	2.79	2.92	3.12	3.15	3.30	3.56	3.69	3.92	4.05	4.08	4.18	4.26	4.22	4.19	4.12	4.19	4.30	4.57	4.70	4.94	5.19	5.45	5.65	
Lower Hem. PRP (%)	4.37	4.80	5.03	5.16	5.32	5.52	5.50	5.35	5.56	5.73	6.24	6.44	6.44	6.75	7.31	7.76	8.28	8.59	8.78	9.11	9.26	9.21	8.94	8.84	8.91	9.14	9.47	9.79	10.17	10.59	11.06	11.45

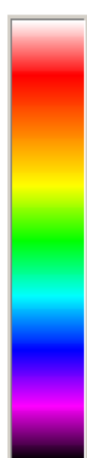
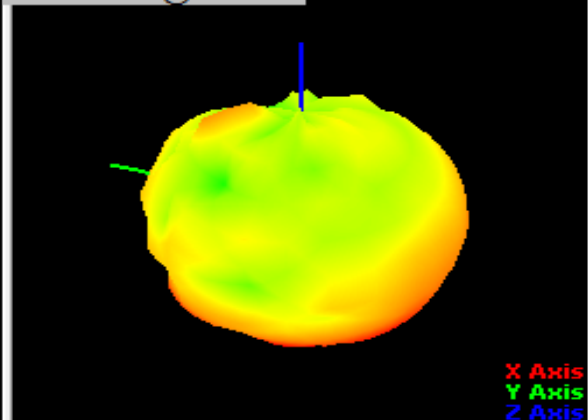




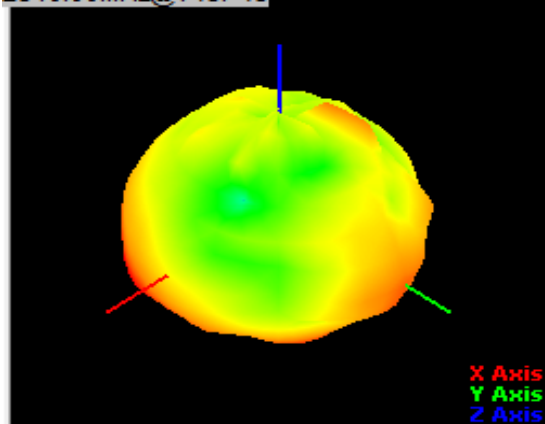
2300.00MHz@T45P45



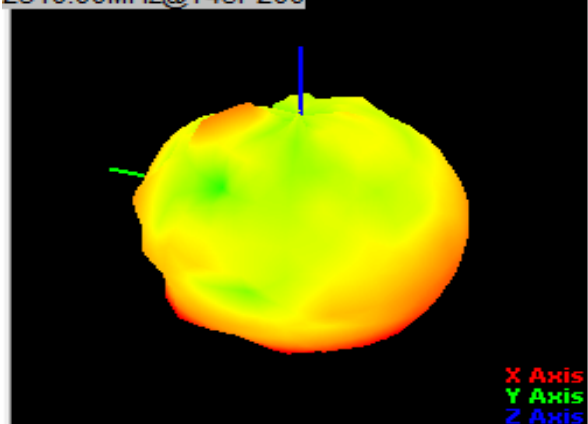
2300.00MHz@T45P200



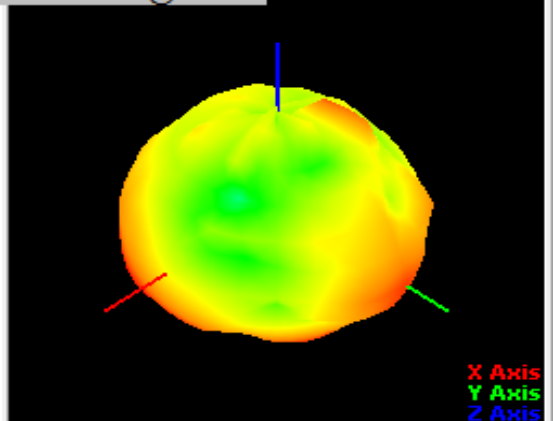
2310.00MHz@T45P45



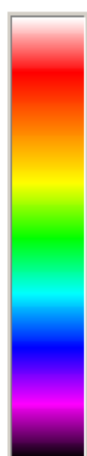
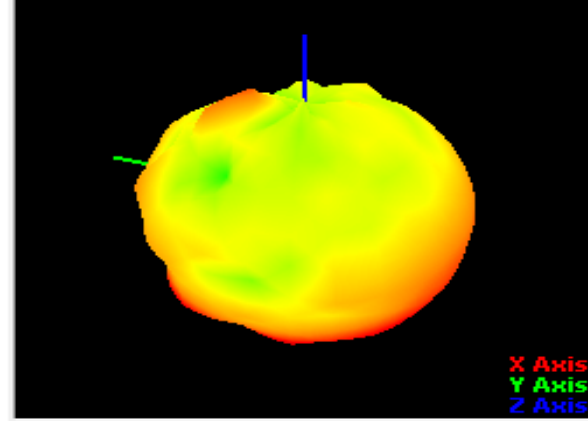
2310.00MHz@T45P200



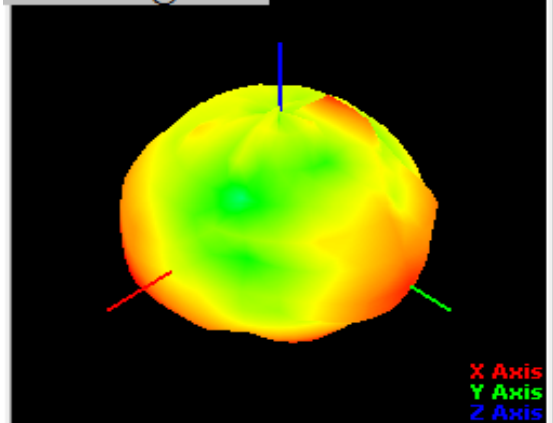
2320.00MHz@T45P45



2320.00MHz@T45P200



2330.00MHz@T45P45



2330.00MHz@T45P200

