

Antenna datasheet

Antenna type: Integral antenna

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

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

PDR22M																															
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)	-8.00	-7.63	-7.47	-7.45	-7.34	-7.24	-7.20	-7.16	-6.93	-6.63	-6.24	-6.19	-6.02	-5.92	-5.97	-5.94	-5.96	-5.99	-5.97	-5.94	-5.85	-5.81	-5.77	-5.75	-5.70	-5.73	-5.88	-6.14	-6.40	-6.65	-6.89
Peak EIRP (dBm)	-3.68	-3.27	-3.14	-3.19	-3.03	-2.82	-2.88	-2.82	-2.69	-2.65	-2.16	-1.85	-1.51	-1.29	-1.23	-1.19	-1.21	-1.32	-1.43	-1.58	-1.64	-1.48	-1.40	-1.35	-1.24	-1.30	-1.51	-1.82	-2.05	-2.27	-2.38
Directivity (dBi)	4.32	4.36	4.33	4.26	4.31	4.42	4.32	4.35	4.24	3.99	4.08	4.34	4.51	4.63	4.74	4.75	4.75	4.67	4.53	4.36	4.21	4.33	4.37	4.40	4.46	4.43	4.38	4.32	4.35	4.39	4.51
Efficiency (dB)	-8.00	-7.63	-7.47	-7.45	-7.34	-7.24	-7.20	-7.16	-6.93	-6.63	-6.24	-6.19	-6.02	-5.92	-5.97	-5.94	-5.96	-5.99	-5.97	-5.94	-5.85	-5.81	-5.77	-5.75	-5.70	-5.73	-5.88	-6.14	-6.40	-6.65	-6.89
Efficiency (%)	15.80	17.30	17.90	18.00	18.50	18.90	19.00	19.20	20.30	21.70	23.80	24.10	25.00	25.60	25.30	25.50	25.30	25.20	25.30	25.50	26.00	26.30	26.50	26.60	26.90	26.70	25.80	24.30	22.90	21.60	20.40
Gain (dBi)	-3.68	-3.27	-3.14	-3.19	-3.03	-2.82	-2.88	-2.82	-2.69	-2.65	-2.16	-1.85	-1.51	-1.29	-1.23	-1.19	-1.21	-1.32	-1.43	-1.58	-1.64	-1.48	-1.40	-1.35	-1.24	-1.30	-1.51	-1.82	-2.05	-2.27	-2.38
NHPRP ±Pi/4 (dBm)	-9.57	-9.17	-9.00	-8.94	-8.79	-8.66	-8.60	-8.54	-8.27	-7.94	-7.54	-7.46	-7.26	-7.12	-7.14	-7.06	-7.03	-7.01	-6.95	-6.89	-6.75	-6.68	-6.62	-6.57	-6.50	-6.50	-6.63	-6.86	-7.10	-7.35	-7.58
NHPRP ±Pi/6 (dBm)	-10.94	-10.52	-10.32	-10.26	-10.10	-9.97	-9.92	-9.87	-9.60	-9.28	-8.88	-8.80	-8.58	-8.42	-8.41	-8.32	-8.26	-8.23	-8.15	-8.07	-7.92	-7.83	-7.76	-7.70	-7.61	-7.60	-7.72	-7.94	-8.17	-8.41	-8.63
NHPRP ±Pi/8 (dBm)	-11.88	-11.44	-11.23	-11.17	-11.02	-10.91	-10.87	-10.82	-10.57	-10.27	-9.88	-9.80	-9.59	-9.42	-9.41	-9.31	-9.25	-9.21	-9.12	-9.04	-8.87	-8.78	-8.70	-8.63	-8.53	-8.50	-8.61	-8.82	-9.04	-9.27	-9.48
Upper Hem. PRP (dBm)	-10.68	-10.31	-10.16	-10.19	-10.12	-10.06	-10.03	-9.99	-9.77	-9.45	-9.02	-8.94	-8.76	-8.67	-8.74	-8.74	-8.79	-8.85	-8.84	-8.81	-8.71	-8.66	-8.59	-8.56	-8.50	-8.54	-8.69	-8.94	-9.20	-9.45	-9.69
Lower Hem. PRP (dBm)	-11.37	-11.00	-10.83	-10.76	-10.59	-10.46	-10.40	-10.37	-10.13	-9.85	-9.49	-9.47	-9.32	-9.20	-9.24	-9.18	-9.16	-9.15	-9.12	-9.10	-9.01	-8.98	-8.98	-8.97	-8.92	-8.95	-9.11	-9.36	-9.63	-9.88	-10.13
Upper Hem. PRP (%)	8.55	9.30	9.64	9.58	9.73	9.87	9.93	10.02	10.55	11.36	12.53	12.76	13.32	13.58	13.36	13.38	13.21	13.02	13.06	13.14	13.47	13.62	13.83	13.94	14.11	14.00	13.52	12.77	12.03	11.34	10.74
Lower Hem. PRP (%)	7.29	7.95	8.27	8.39	8.72	9.00	9.11	9.19	9.71	10.36	11.24	11.30	11.69	12.02	11.90	12.07	12.12	12.15	12.25	12.32	12.56	12.64	12.66	12.69	12.81	12.74	12.28	11.58	10.88	10.27	9.71



