Antenna

Specifications

At Wavelink, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Wavelink Certifications:

Wavelink Partners:

Catalogue

1 Product Description

This wavelink antenna covers WiFi 2.4 and WiFi 5.8

2 Product Features

Easy to install
High efficiency
Removable

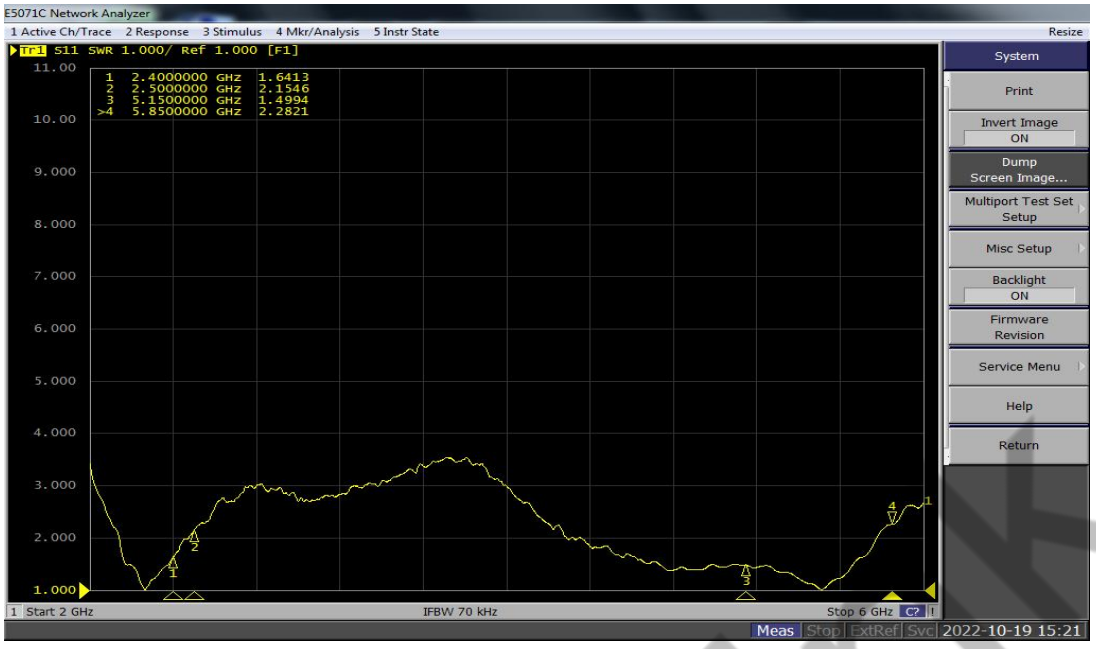
3 Product Specifications

Passive Electrical Specifications		
Frequency Range	2400–2500 MHz	5150–5850 MHz
Input Impedance	50 Ω	
VSWR	≤ 2.5	

Gain	≤ 3dBi
Polarization Type	Linear
Mechanical Specifications	
Antenna Size	108 mm × 10 mm
Casing	Copper tube
Connector Type	SMA
Working Temperature	-40 °C to +85 °C
Radome Color	Black

4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



OTA Test Report

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	70.64	-1.51	1.15	-1	1.15	-18.99	1.51	0	46.78	46.66
2410	66.85	-1.75	0.94	-1.21	0.94	-18.59	1.75	0	46.54	46.47
2420	69.33	-1.59	1.16	-0.99	1.16	-17.84	1.59	75	46.78	46.77
2430	66.86	-1.75	1.1	-1.05	1.1	-17.68	1.75	75	46.65	46.52
2440	67.2	-1.73	1.27	-0.88	1.27	-17.48	1.73	75	46.79	46.73
2450	69.58	-1.57	1.67	-0.48	1.67	-17.21	1.57	60	46.92	46.83
2460	69.18	-1.6	1.93	-0.22	1.93	-17.14	1.6	60	47.02	46.93
2470	64.38	-1.91	1.85	-0.3	1.85	-18.95	1.91	60	46.82	46.7
2480	68.75	-1.63	2.21	0.06	2.21	-20.94	1.63	45	47.15	47.03
2490	70.12	-1.54	2.23	0.08	2.23	-19.39	1.54	45	47.25	47.04
2500	66.82	-1.75	1.84	-0.31	1.84	-16.91	1.75	45	47.08	46.9
5150	45.99	-3.37	1.03	-1.12	1.03	-24.17	3.37	0	52.43	52.34
5160	44.88	-3.48	0.73	-1.42	0.73	-23.76	3.48	0	52.12	52.18
5170	49.39	-3.06	1	-1.15	1	-22.07	3.06	0	52.6	52.46
5180	43.86	-3.58	0.38	-1.77	0.38	-22.59	3.58	0	52.05	52.05
5190	44.29	-3.54	0.34	-1.81	0.34	-21.55	3.54	0	52.18	52.17
5200	46.46	-3.33	0.59	-1.56	0.59	-20.74	3.33	30	52.5	52.27
5210	47.4	-3.24	0.84	-1.31	0.84	-20.39	3.24	30	52.27	52.38
5220	45.65	-3.41	0.78	-1.37	0.78	-20.93	3.41	30	52.4	52.27
5230	48.89	-3.11	1.11	-1.04	1.11	-21.71	3.11	30	52.24	52.27
5240	48.67	-3.13	1.14	-1.01	1.14	-21.88	3.13	30	52.38	52.3
5250	45.36	-3.43	0.81	-1.34	0.81	-22.8	3.43	30	52.27	52.3
5260	50.8	-2.94	1.25	-0.9	1.25	-22.92	2.94	0	52.58	52.56
5270	51.24	-2.9	1.25	-0.9	1.25	-23.58	2.9	0	52.68	52.73
5280	50.68	-2.95	1.25	-0.9	1.25	-24.14	2.95	0	52.54	52.75
5290	54.73	-2.62	1.64	-0.51	1.64	-23.97	2.62	0	52.86	52.77
5300	52.07	-2.83	1.49	-0.66	1.49	-24.03	2.83	0	52.57	52.74
5310	51.35	-2.89	1.48	-0.67	1.48	-23.71	2.89	0	52.64	52.76
5320	57.54	-2.4	2.04	-0.11	2.04	-22.3	2.4	0	53.01	53.1
5330	56.04	-2.52	1.96	-0.19	1.96	-21.57	2.52	15	52.84	53.07
5340	54.9	-2.6	1.86	-0.29	1.86	-21.2	2.6	15	52.93	53.13
5350	57.18	-2.43	2.02	-0.13	2.02	-20.51	2.43	15	53.1	53.18
5360	58.62	-2.32	2.11	-0.04	2.11	-19.91	2.32	15	53.07	53.26
5370	56.07	-2.51	1.96	-0.19	1.96	-19.35	2.51	15	53.05	53.27
5380	57.94	-2.37	2.18	0.03	2.18	-19.61	2.37	15	53.13	53.16
5390	52.62	-2.79	1.83	-0.32	1.83	-20.71	2.79	15	52.63	52.77
5400	64.54	-1.9	2.7	0.55	2.7	-22.59	1.9	15	53.43	53.58
5410	67.01	-1.74	2.84	0.69	2.84	-22.27	1.74	15	53.54	53.62
5420	65.55	-1.83	2.66	0.51	2.66	-24.07	1.83	30	53.45	53.52
5430	67.31	-1.72	2.7	0.55	2.7	-25.47	1.72	30	53.6	53.75
5440	66.62	-1.76	2.58	0.43	2.58	-23.1	1.76	15	53.9	53.8

5450	69.57	-1.58	2.74	0.59	2.74	-20.14	1.58	15	53.96	53.96
5460	68.25	-1.66	2.69	0.54	2.69	-19.21	1.66	15	54.16	54.21
5470	67.81	-1.69	2.6	0.45	2.6	-18.75	1.69	15	53.92	53.79
5480	71.2	-1.48	2.86	0.71	2.86	-18.86	1.48	15	53.84	53.78
5490	70.03	-1.55	3.04	0.89	3.04	-20.21	1.55	0	53.87	53.89
5500	68.4	-1.65	3.15	1	3.15	-21.36	1.65	0	53.87	53.76
5510	69.49	-1.58	3.35	1.2	3.35	-21.5	1.58	0	53.73	53.72
5520	66.58	-1.77	3.25	1.1	3.25	-22.08	1.77	0	53.63	53.68
5530	71.69	-1.45	3.63	1.48	3.63	-22.26	1.45	0	53.99	53.91
5540	67.2	-1.73	3.41	1.26	3.41	-24.46	1.73	30	53.7	53.69
5550	67.96	-1.68	3.51	1.36	3.51	-24.98	1.68	30	53.94	53.98
5560	67.8	-1.69	3.56	1.41	3.56	-22.26	1.69	15	53.96	54.02
5570	67.1	-1.73	3.55	1.4	3.55	-22.45	1.73	15	54.05	53.98
5580	71.26	-1.47	3.83	1.68	3.83	-26.46	1.47	15	54.53	54.71
5590	64.08	-1.93	3.38	1.23	3.38	-28.57	1.93	0	54.27	54.3
5600	63.58	-1.97	3.35	1.2	3.35	-24.93	1.97	0	54.33	54.33
5610	62.82	-2.02	3.26	1.11	3.26	-21.63	2.02	0	54.14	54.42
5620	59.97	-2.22	3.03	0.88	3.03	-19.97	2.22	0	54.12	54.07
5630	59.39	-2.26	3.01	0.86	3.01	-19.87	2.26	0	53.81	53.96
5640	60.42	-2.19	3.11	0.96	3.11	-19.37	2.19	0	53.97	54.06
5650	58.49	-2.33	3.07	0.92	3.07	-18.92	2.33	0	53.97	54.04
5660	56.23	-2.5	2.93	0.78	2.93	-18.08	2.5	0	53.91	53.96
5670	56.6	-2.47	2.99	0.84	2.99	-16.83	2.47	0	53.95	54.04
5680	60.26	-2.2	3.24	1.09	3.24	-15.44	2.2	0	54.11	54.19
5690	56.82	-2.46	2.94	0.79	2.94	-14.68	2.46	0	54.12	54.05
5700	57.8	-2.38	3.04	0.89	3.04	-13.83	2.38	0	54.07	54.28
5710	57.49	-2.4	3.11	0.96	3.11	-14.34	2.4	0	54.1	54.06
5720	55.54	-2.55	3.06	0.91	3.06	-15.02	2.55	0	54.12	54.09
5730	58.82	-2.3	3.38	1.23	3.38	-15.17	2.3	0	54.19	54.3
5740	62.97	-2.01	3.74	1.59	3.74	-14.84	2.01	0	54.46	54.39
5750	58.63	-2.32	3.47	1.32	3.47	-14.41	2.32	0	54.33	54.22
5760	54.86	-2.61	3.2	1.05	3.2	-14.56	2.61	0	54.29	54.29
5770	59.79	-2.23	3.56	1.41	3.56	-13.93	2.23	0	54.53	54.36
5780	53.55	-2.71	3.09	0.94	3.09	-14.37	2.71	0	54.48	54.35
5790	58.47	-2.33	3.45	1.3	3.45	-14.25	2.33	0	54.4	54.34
5800	62.03	-2.07	3.7	1.55	3.7	-13.99	2.07	0	54.54	54.37
5810	55.74	-2.54	3.19	1.04	3.19	-14.27	2.54	0	54.38	54.21
5820	61.05	-2.14	3.58	1.43	3.58	-13.68	2.14	0	54.57	54.44
5830	59.45	-2.26	3.49	1.34	3.49	-14.37	2.26	0	54.61	54.45
5840	59.01	-2.29	3.46	1.31	3.46	-15.35	2.29	0	54.67	54.43
5850	60.39	-2.19	3.6	1.45	3.6	-16.08	2.19	0	54.72	54.61

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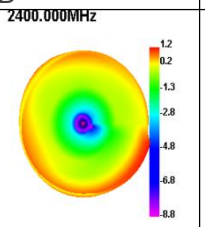
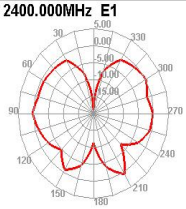
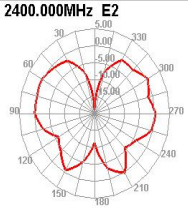
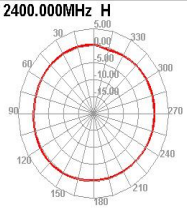
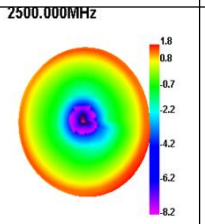
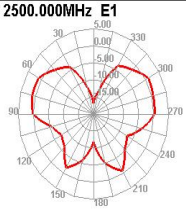
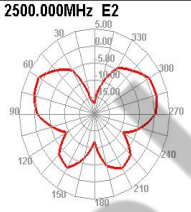
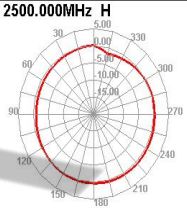
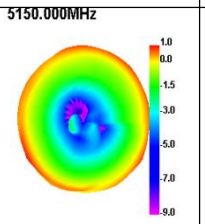
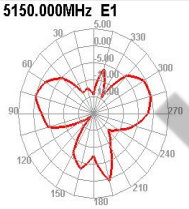
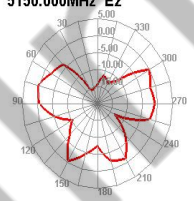
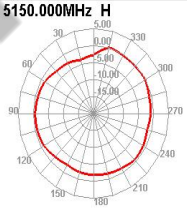
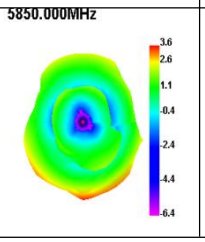
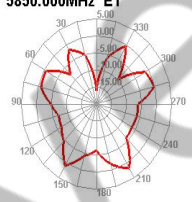
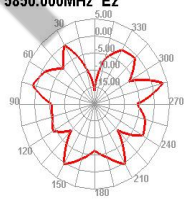
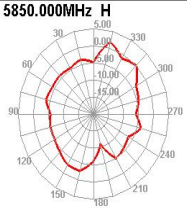
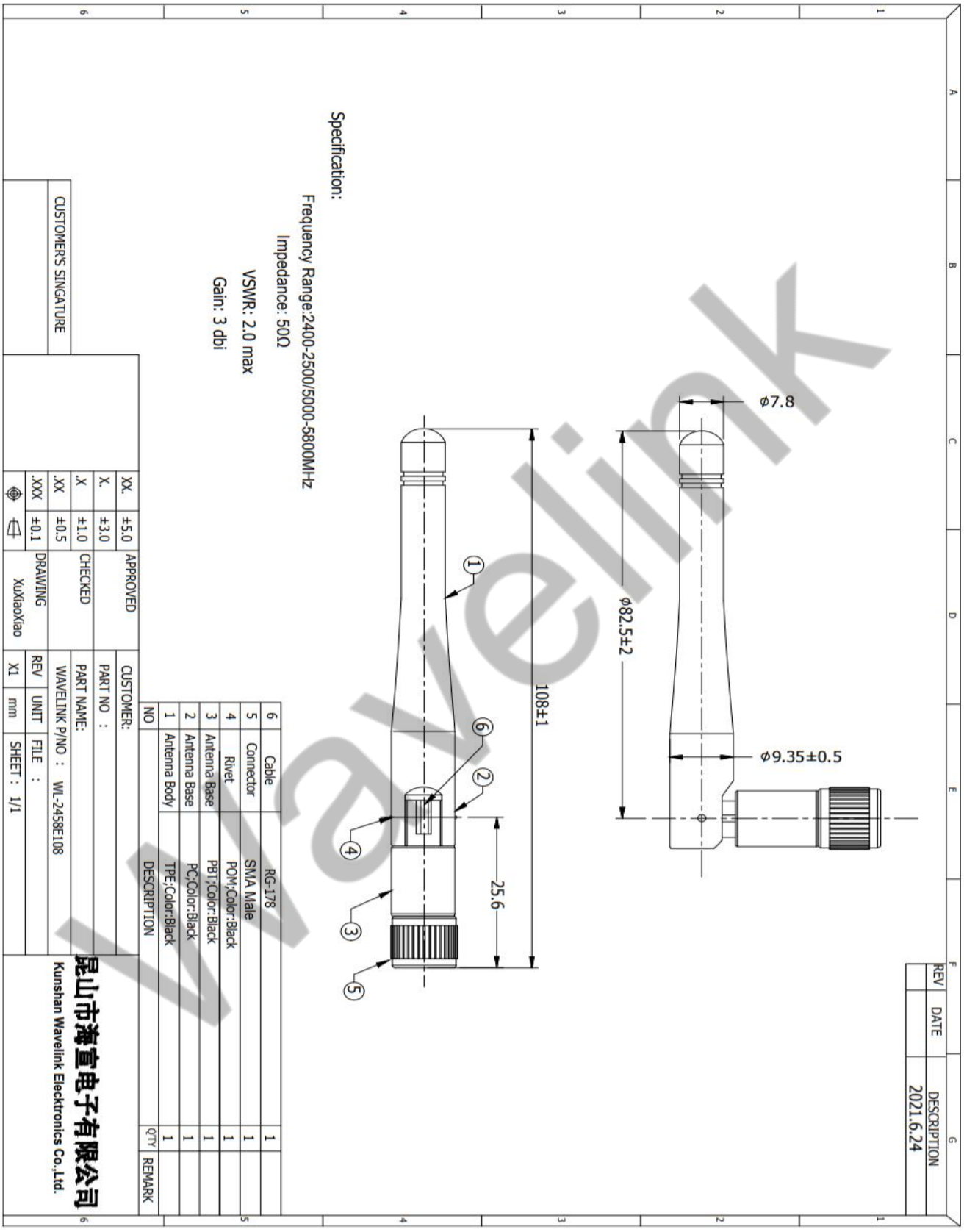
2400MHz				
2500MHz				
5150MHz				
5850MHz				

5 Product Size



6 Others

DESCRIPTION	SPECIFICATION
Temperature /Humidity cycling	1, The device under test is kept for 30 mins in an environment with a temperature of -40 ℃. 2, Kept for 4 Hours in an environment with a temperature of 8cthe conditions are stabilized at room temperature. 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem;No adhesion problem of glue).
Temperature Shock	1, The device under test at -40 ℃⇔125 ℃ by 100 cycles, Dwell of 30 mins, transition time between Dwell 30 secs (~ 61 mins / cycle) and each item should be measured after exposing them in normal temperature and humidity for 24 h. 2, Parts should meet RF spec before and after test. 3, No cosmetic problem(No soldering problem; No adhesion problem of glue).
High Temperature	1, Temperature:125℃, time:1008 hours 2, There is no substantial obstruction to air flow across and around the samples, and the samples are not touching each other 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem; No adhesion problem of glue).
Salt mist test	1, The device under test is exposed to a spray of a 5% (by volume) resolution of NACL in water for 2 hours. Thereafter the device under test is left for 1 week in room temperature at a relative humidity of 95%. The cycle is repeated until a total of 2 cycles have been completed. Here after the conditions are stabilized at room temperature. 2, Parts should meet RF spec before and after test. 3, No visible corrosion. Discoloration accept.