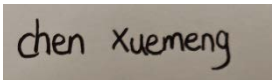


Antenna Specification

Product Model: Tapo C250

Manufacturer: TP-Link Systems Inc.

Date: 2025.06.30

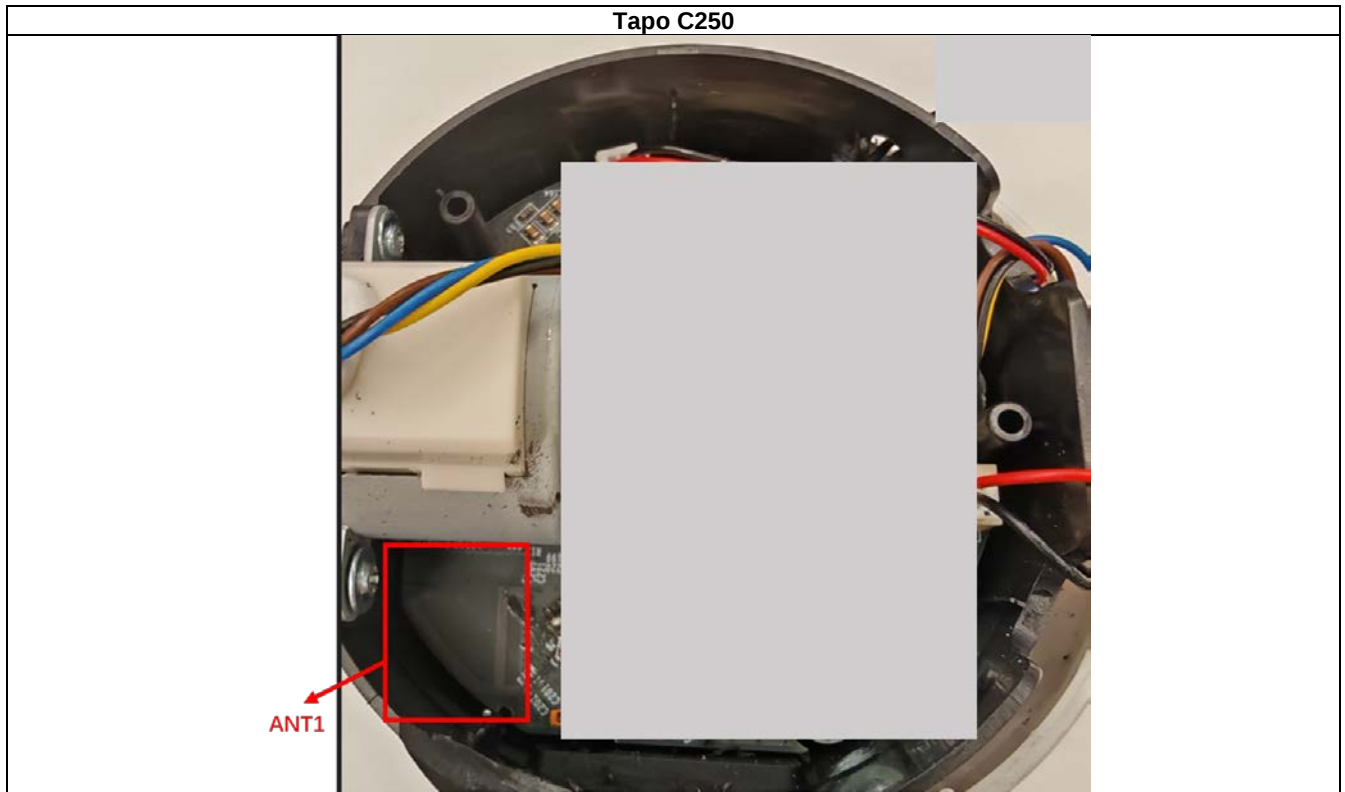
Checked By: Chen Xuemeng 

TP-Link Systems Inc.
10 Mauchly, Irvine, CA 92618

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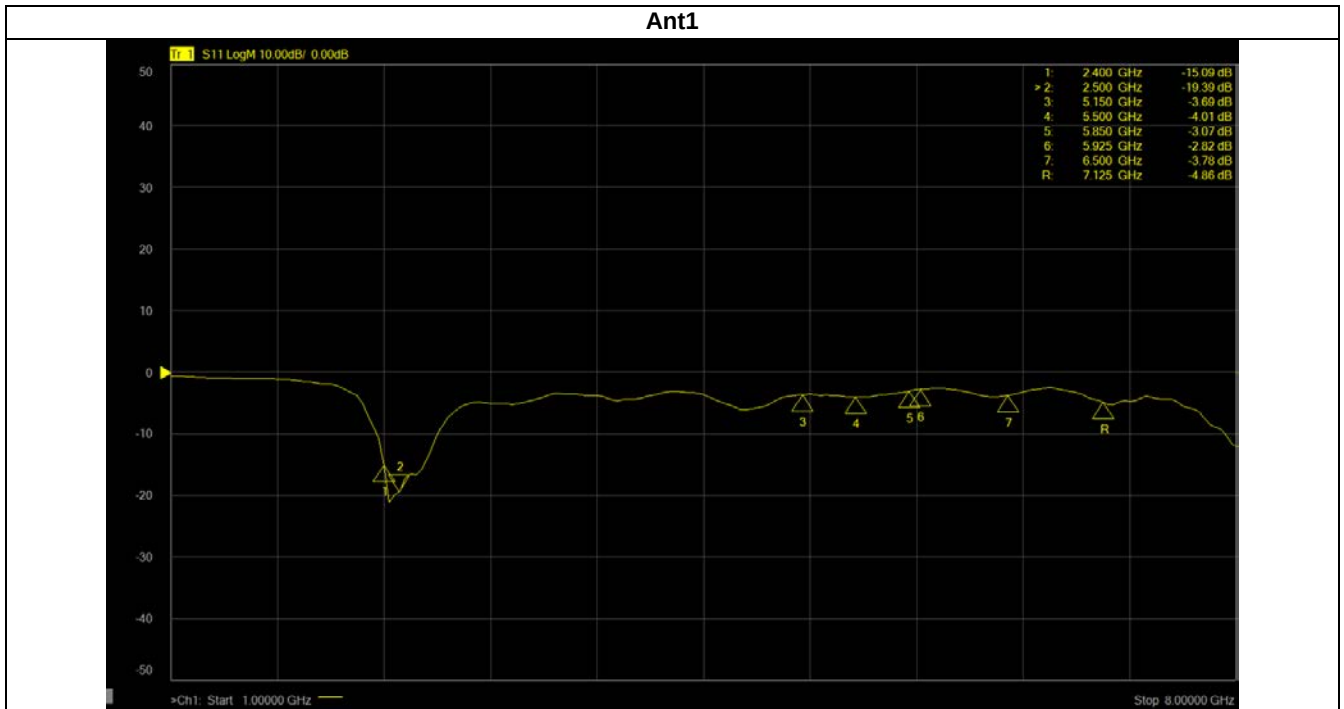
1. Antenna Distribution



2. Electrical Characteristics

Ant1	
Frequency	2400~2500 MHz
Impedance	50Ohm
Antenna Type	IFA
Antenna Gain	2.13 dBi@2400~2500MHz
Radiation pattern	Omni-Directional
P/N	Tapo C250+ANT

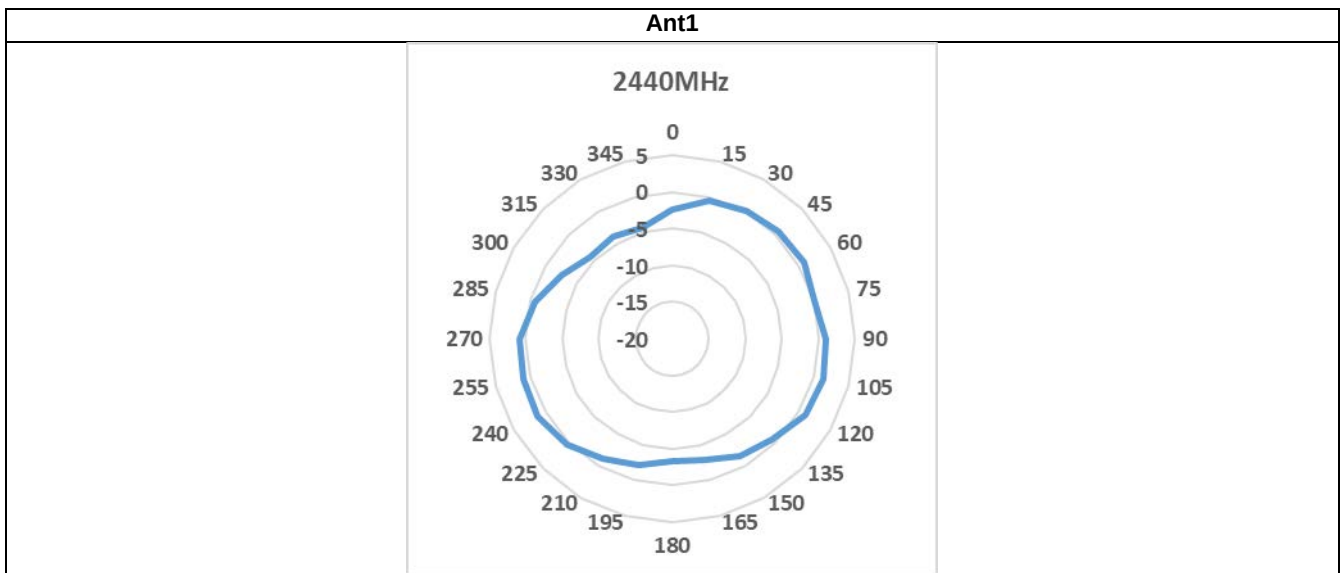
3. S Parameter Test Data



4. Antenna Peak Gain

Frequency	2.45GHz 2400~2500MHz
Ant1 MaxGain(dBi)	2.13
Max Gain(dBi)	2.13

5. Antenna Radiation Pattern



6. Test Pattern

Ant1													
Freq	2500												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180

0	-0.25	-0.76	-1.99	-4.36	-6.92	-6.05	-3.80	-3.81	-4.31	-2.57	-4.76	-3.62	-6.26
15	-0.31	-0.72	-2.03	-3.42	-5.57	-4.56	-1.82	-2.15	-5.12	-4.11	-4.46	-2.77	-6.26
30	-0.33	-0.75	-2.04	-2.58	-5.21	-2.18	-0.27	-1.70	-3.75	-4.37	-4.27	-1.70	-6.26
45	-0.35	-0.73	-1.52	-2.21	-5.22	-0.96	-0.19	-0.40	-3.89	-2.52	-2.36	-0.53	-6.26
60	-0.40	-0.78	-1.09	-2.27	-3.25	-1.77	0.54	0.16	-2.56	-0.04	-0.30	0.10	-6.26
75	-0.31	-0.88	-1.46	-2.24	-2.78	-0.66	0.49	1.10	0.06	1.32	0.80	-0.01	-6.26
90	-0.25	-1.09	-2.46	-2.33	-3.11	0.49	1.32	1.65	0.77	1.76	1.11	-0.69	-6.26
105	-0.28	-1.37	-3.66	-2.81	-2.79	0.62	1.51	2.13	0.29	1.81	0.96	-1.23	-6.26
120	-0.26	-1.78	-4.86	-4.10	-2.65	0.13	0.71	1.64	-0.65	1.01	0.55	-1.02	-6.26
135	-0.21	-2.28	-5.79	-6.31	-3.08	-0.81	-0.67	0.31	-1.70	-0.18	-0.48	-0.36	-6.26
150	-0.22	-2.86	-6.37	-7.41	-3.48	-2.52	-1.97	-3.06	-2.47	-0.36	-1.37	0.34	-6.26
165	-0.13	-3.47	-7.09	-7.53	-5.61	-3.56	-3.57	-5.27	-4.63	-2.08	-0.86	0.05	-6.26
180	-0.12	-3.85	-7.10	-8.44	-4.79	-2.72	-3.75	-4.56	-6.87	-3.78	-2.00	-1.50	-6.26
195	-0.14	-3.93	-5.50	-5.44	-4.13	-1.60	-1.84	-3.47	-7.38	-5.69	-4.78	-3.21	-6.26
210	-0.16	-3.70	-4.15	-2.67	-3.48	0.28	-0.75	-1.66	-4.41	-7.09	-5.19	-3.46	-6.26
225	-0.13	-3.20	-3.18	-1.47	-1.69	0.52	0.95	0.58	-2.63	-7.27	-5.21	-3.14	-6.26
240	-0.16	-2.67	-2.37	-0.37	-1.85	1.58	2.05	1.15	-2.80	-4.12	-6.69	-3.44	-6.26
255	-0.11	-2.04	-1.80	-0.06	-1.53	1.56	1.76	1.73	-1.64	-2.67	-6.35	-4.42	-6.26
270	-0.13	-1.56	-1.60	-0.49	-1.28	0.56	1.83	0.87	-0.89	-2.70	-4.76	-5.20	-6.26
285	-0.17	-1.23	-1.69	-1.34	-1.87	-0.55	0.53	0.32	-1.21	-1.64	-3.61	-5.75	-6.26
300	-0.23	-0.95	-2.05	-2.27	-3.62	-2.33	-0.98	-0.85	-1.68	-1.32	-3.82	-6.26	-6.26
315	-0.26	-0.84	-2.28	-3.43	-6.09	-4.09	-2.89	-1.99	-3.38	-2.71	-5.00	-6.21	-6.26
330	-0.33	-0.76	-2.28	-4.33	-7.17	-6.54	-3.92	-3.06	-4.97	-3.96	-5.16	-5.63	-6.26
345	-0.29	-0.80	-2.18	-4.53	-7.64	-6.93	-4.97	-3.19	-4.07	-3.70	-4.91	-4.60	-6.26