

TS301&TS302 Principle prototype Antenna passive performance test record 0801

Description

1. There is a clutter between 800-850MHz, which is caused by the cable connecting the daughter board and the main board, affecting the passive test indicators of the antenna in the 868 and 915 frequency bands. To improve efficiency as much as possible, debug separately.
2. The efficiency of the 915 band is greater than 30% and the gain is greater than 0dBi, which meets the requirements of advanced indicators; the efficiency of the 868 band is greater than 23% and the gain is greater than -2.5dBi, which meets the requirements of standard indicators; the efficiency of the 470 band is between 6-20%, which meets the requirements of standard indicators.

Apperence
&
Main Board
Jig



S/N

6723D2999206

6723D2979669

Antenna Size

55.2×16×1 mm³

Model Name

TS302-915M Ant

Manufacturer

Xiamen Milesight IoT Co., Ltd.

Manufacturer Address

Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

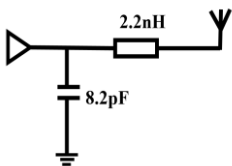
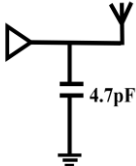
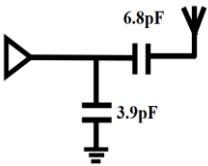
Frequency Band

B915

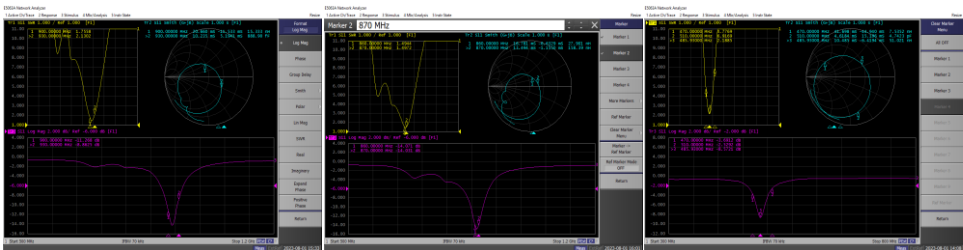
B868

B470

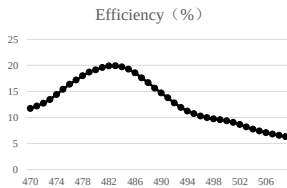
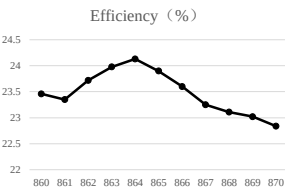
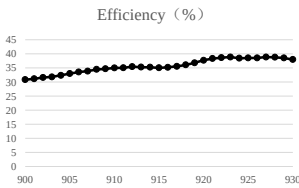
Matching circuit



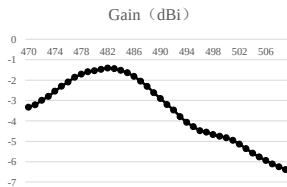
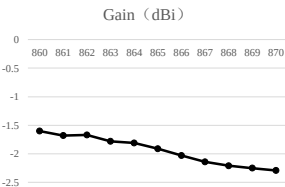
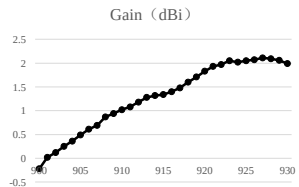
Impedance characteristics



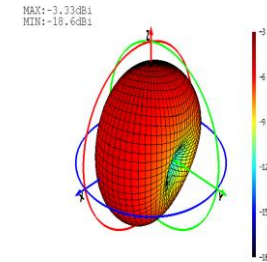
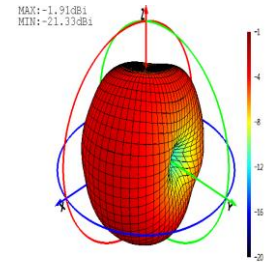
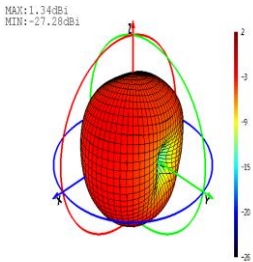
Efficiency



Gain



Direction Map
3D



[illegible]

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (Hz)	860	861	862	863	864	865	866	867	868	869	870
Gain (dB)	-1.6	-1.68	-1.67	-1.76	-1.81	-1.81	-2.03	-2.14	-2.21	-2.25	-2.29
Efficiency (%)	4.3	4.32	4.25	4.2	4.17	4.22	4.27	4.24	4.26	4.38	4.41
Efficiency (%)	22.46	22.35	22.72	23.00	24.13	23.9	23.8	23.25	23.11	23.02	22.84
Directivity (°)	6.7	6.66	6.58	6.43	6.37	6.31	6.35	6.2	6.05	6.03	6.07

DATA	Frequency (Hz)																																																									
	0	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	32	33	34	35	36	37	38	39	40	41	42	43														
	Intensity (dB)	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400
	Intensity (dB)	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400
	Intensity (dB)	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400
	Intensity (dB)	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400