

Xiamen Milesight IoT Co., Ltd.
Add: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China
Antenna model : VS321-LoRa

Frequency band	LoRa	2.4GHz BT
B915	B868	[Pulse ANT3216A063R2455A]

"Motherboard
&
"Antenna
board"



整机

Accessories

Antenna size

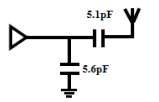
S/N

40×15×1.6 mm³

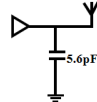
6443F0708574 000062

7.5×6×2.15 mm³

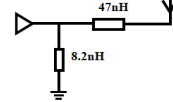
building-out circuit



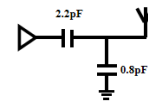
R79=5.1pF(串); C25=5.6pF(并)



R79=0R(串); C25=5.6pF(并)

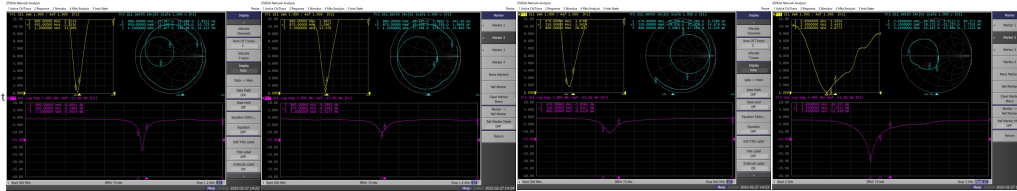


R79=47nH(串); C25=8.2pF(并)



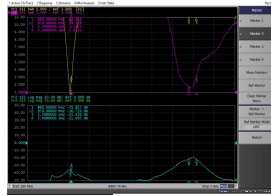
.43=R46=0R; C58=0.8pF(并); R34=2.2pF(串)

pedance characterist

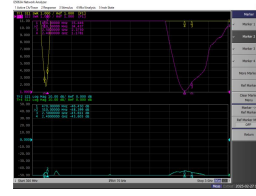


isolation

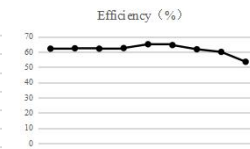
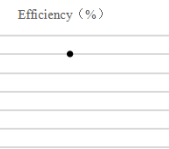
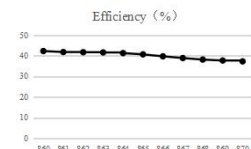
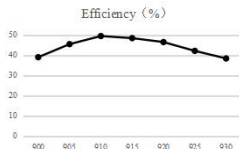
Port1: LoRa-868
Port2: BT



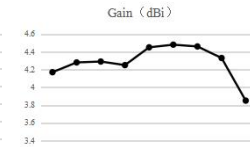
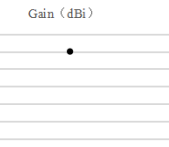
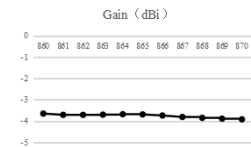
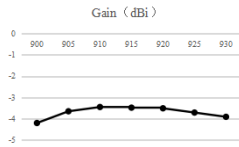
Port1: LoRa-470
Port2: BT



efficiency



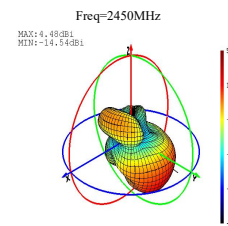
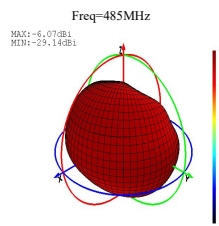
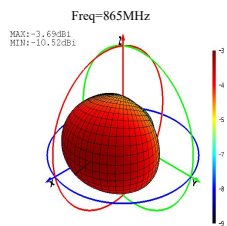
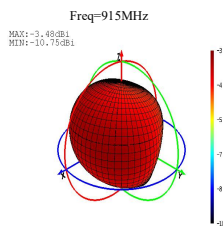
Gain



test chart



directional diagram



B915	Frequency ID	1	2	3	4	5	6
	Frequency (MHz)	900	905	910	915	920	925
	Gain (dBi)	-4.2	-3.65	-3.45	-3.48	-3.51	-3.71
	Efficiency (dB)	-4.1	-3.44	-3.07	-3.16	-3.34	-3.77
	Efficiency (%)	38.9	45.34	49.34	48.31	46.37	42.02

B868	Frequency ID	1	2	3	4	5	6
	Frequency (MHz)	860	861	862	863	864	865
	Gain (dBi)	-3.65	-3.71	-3.71	-3.7	-3.68	-3.69
	Efficiency (dB)	-3.74	-3.79	-3.8	-3.81	-3.85	-3.91
	Efficiency (%)	42.23	41.76	41.67	41.56	41.24	40.62

BT	Frequency ID	1	2	3	4	5	6
	Frequency (MHz)	2400	2410	2420	2430	2440	2450
	Gain (dBi)	4.17	4.28	4.29	4.25	4.45	4.48
	Efficiency (dB)	-2.07	-2.05	-2.07	-2.04	-1.87	-1.91
	Efficiency (%)	62.06	62.32	62.08	62.48	64.99	64.43

7
930
-3.91
-4.17
38.28

7	8	9	10	11
866	867	868	869	870
-3.74	-3.81	-3.85	-3.89	-3.92
-4.01	-4.11	-4.19	-4.24	-4.29
39.68	38.84	38.1	37.65	37.23

7	8	9	10	11
2460	2470	2480	2490	2500
4.46	4.33	3.85	3.87	4.13
-2.1	-2.22	-2.72	-2.83	-2.69
61.68	59.94	53.47	52.17	53.83