



Kunshan Innowave Communication Technology Co., Ltd.

(SPECIFICATION FOR APPROVAL)

Customer Name: Hoymiles Power Electronics Inc.

Item name: External Antenna-SUB 1G

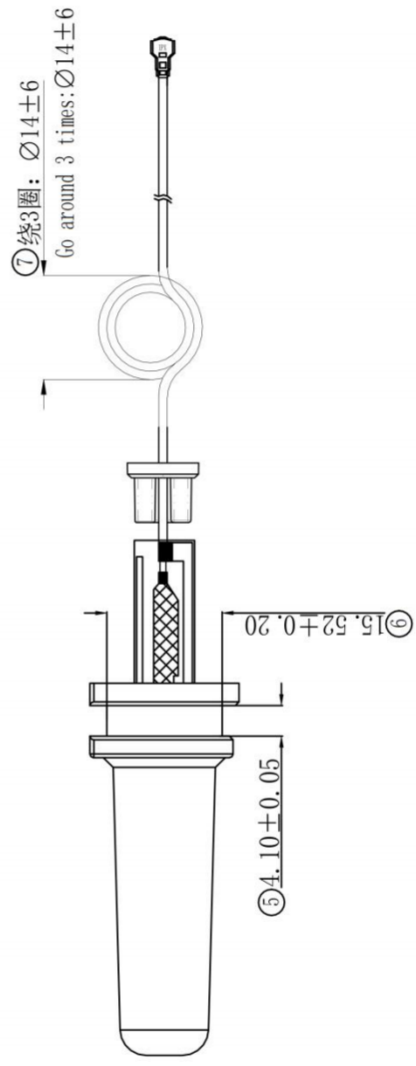
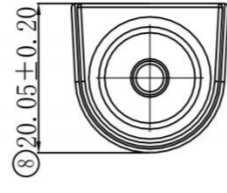
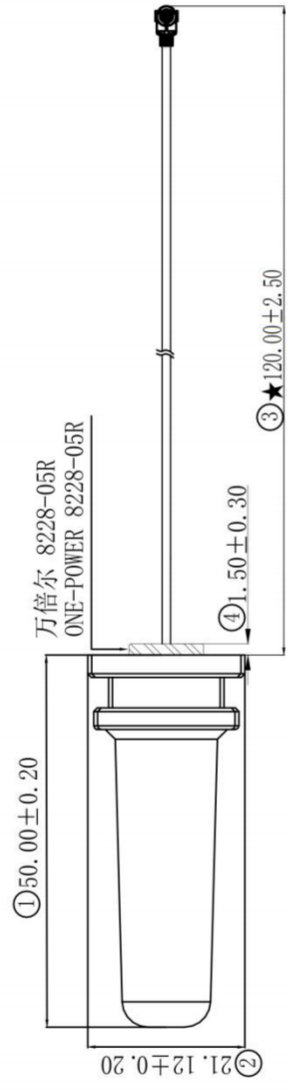
Frequency band 860~930MHz, impedance 50ohm, gain 0.3dBi max, exposed wire length
L=120mm, shell length L=50mmcable, RF1.13 black cable, first generation IPEX terminal -
40°C~85°C

Vender Part No : F06254409910002

Customer Part No : A6040411

Revision : A/0

Date : 2024.11.22



Electrical properties

1.1 Electrical properties Reports

Test Reports

Electrical Properties	
Frequency	860MHz~930MHz
Antenna Type	External Antenna
S11	-8.47（868mMHz）;-8.37（915MHz）
Gain（Max）	0.3dBi
Polarization	Linear, Vertical

1.2 S parameter :

S11:



SWR:



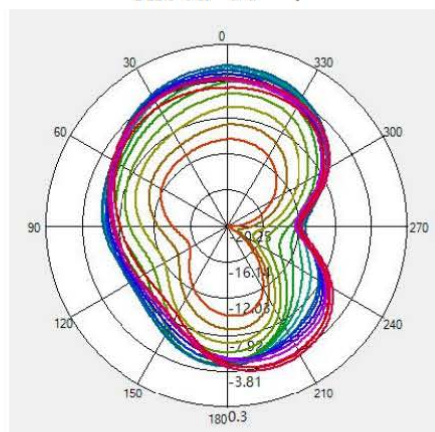
1.3 Passive test data :

Test equipment : GTS RayZone 1800

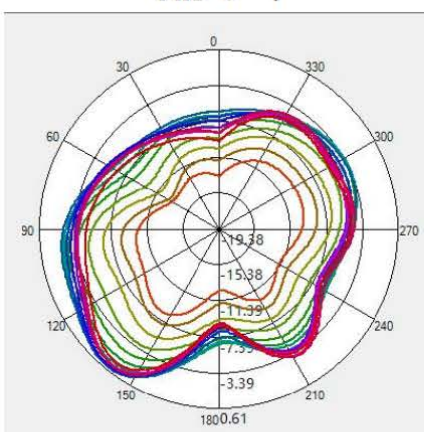
Freq(MHz)	Effi (db)	Effi (%)	Gain(dBi)
808	-11.86	6.51	-8.1
818	-10.59	8.73	-6.62
828	-9	12.58	-4.83
838	-7.66	17.16	-3.29
848	-6.39	22.98	-1.87
858	-5.6	27.56	-0.86
868	-5.12	30.76	-0.21
878	-4.8	33.13	0.26
888	-4.7	33.85	0.3
898	-4.94	32.09	0.13
908	-5.09	30.98	-0.05
918	-5.31	29.46	-0.32
928	-5.32	29.38	-0.33
938	-5.09	30.95	-0.11
948	-4.96	31.9	-0.11
958	-5.56	27.77	-0.6

1.4 2D drawing :

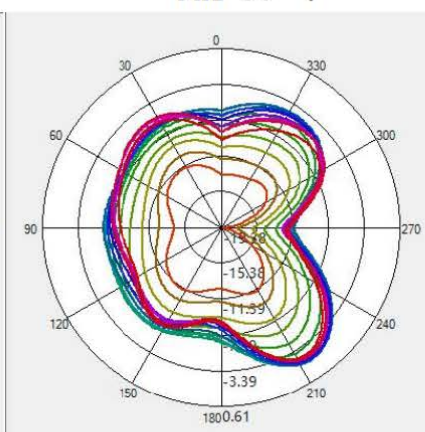
Theta=90° :



Phi=0° :

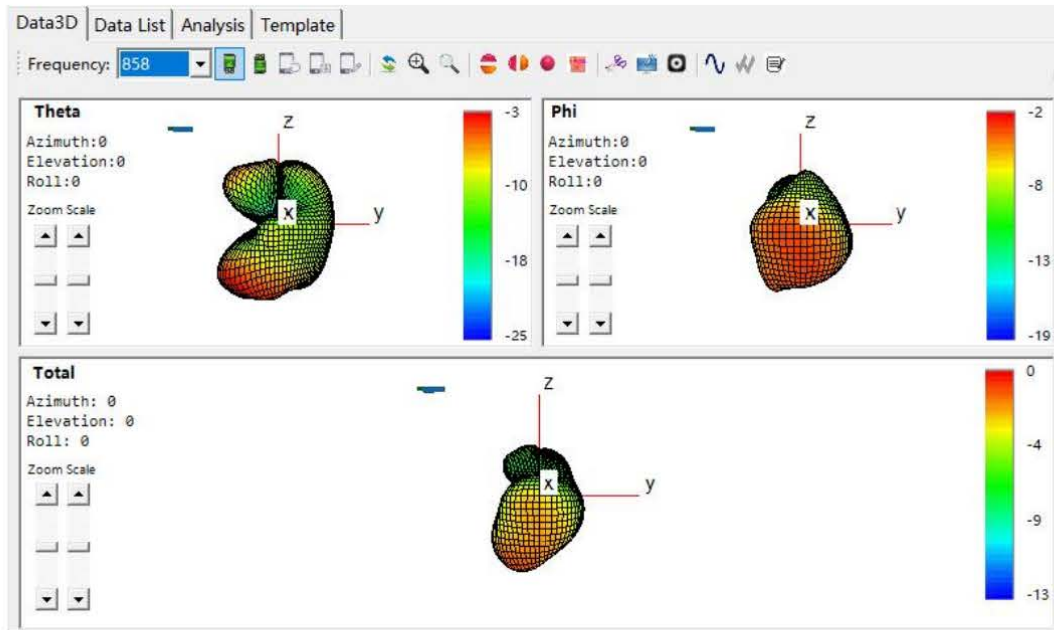


Phi=90° :

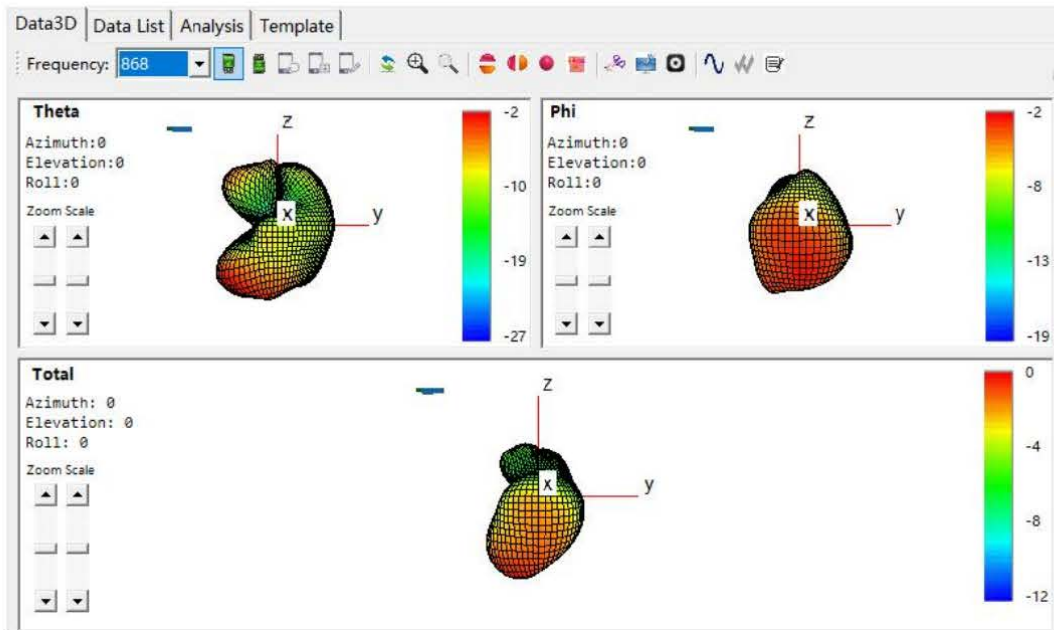


1.5 3D drawing :

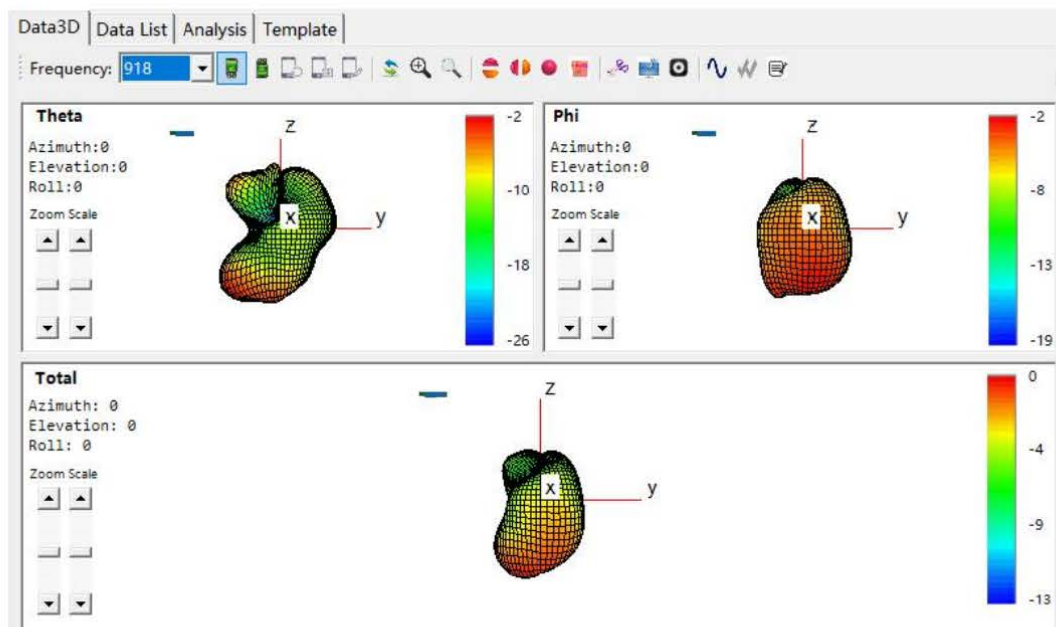
858MHz:



868MHz:



918MHz:



1.6 Physical diagram of the antenna :

