

DONGGUAN CITY SLEing INTEL-TECH CO.,LTD

SPECIFICATION FOR APPROVAL

Customer Name: HOYMILES POWER ELECTRONICS INC.

Item name: 1G Blade Antenna

Frequency: 860-930MHz, Gain 3.0 ± 1.5 dBi, SMA , $\Phi 13 \times 201$ mm, Ivory white, -40°C
-85°C

Vender Part No: SLEingA100630201-F07

Customer Part No: A6040417

Revision: A/0

Date: 2023.02.25

Signature

Audit	Confirmation	Approval

Approval

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Weiwei Jiang	Xiaoyu Yang Kailun Wu	Baoliang Bai

DONGGUAN CITY SLEing INTEL-TECH CO.,LTD

Tel: +86-0769-89208968

Fax: +86-0769-89208969

Add: 402, Building 6, Modern Enterprise Accelerator, No. 24, Gongye East Road, Songshan Lake, Dongguan, Guangdong, China

[illegible]

Spec Item

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Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

Test Reports

Electrical Properties	
Frequency	860-930 MHz
Impedance	50 Ohm Nominal
V. S. W. R	≤3.0
Return Loss	-6dB Max
Radiation	Omni-directional
Gain	3.0±1.5 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	RP-SMA
Physical Properties	
Antenna Material	TPEE/PC/PBT
Antenna Color	White
Cable Type	RG178
Operating Temp	-40℃-85℃
Storage Temp.	-40℃-85℃

S Parameter Test

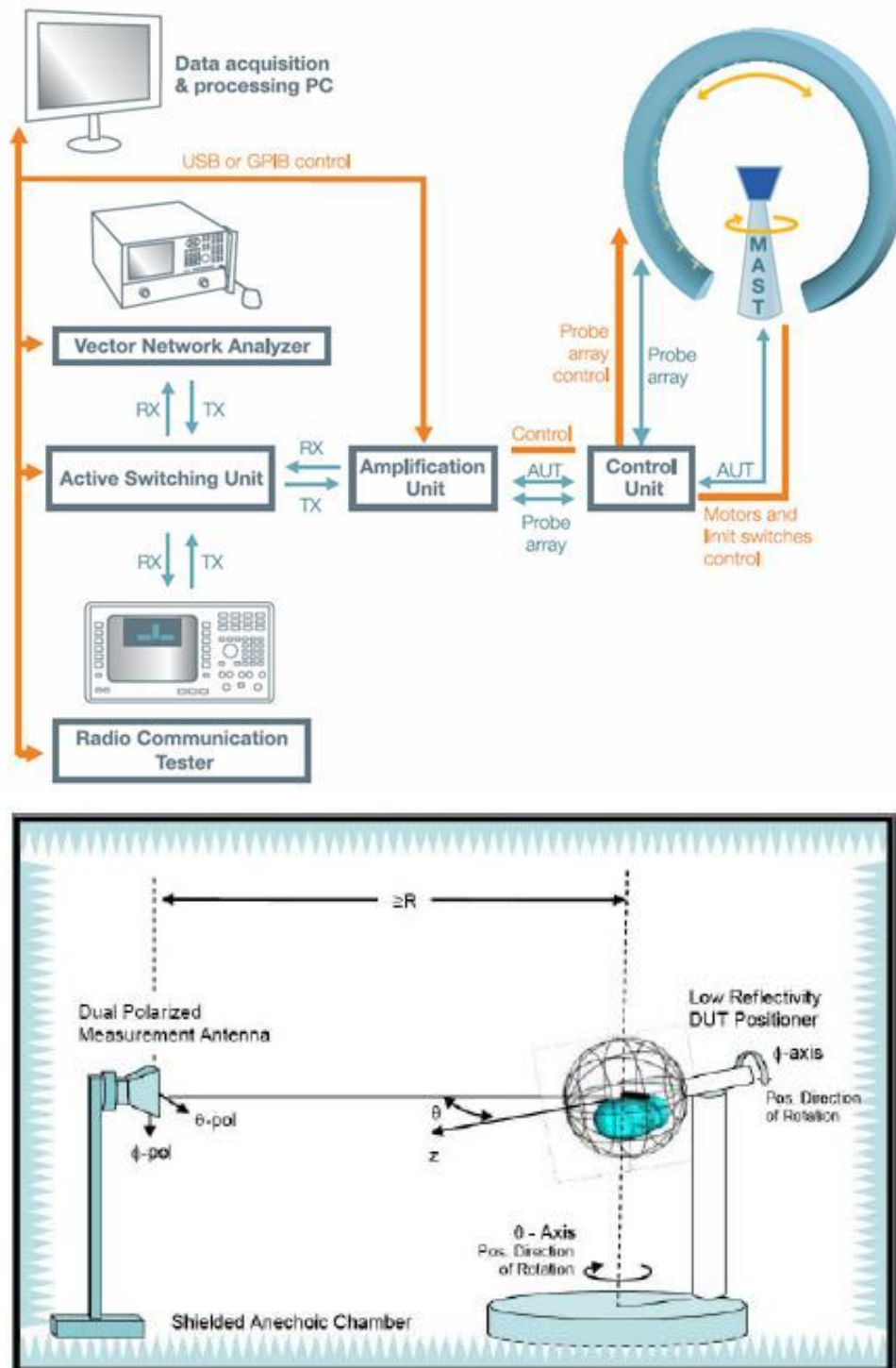
Agilent E5071C Network Analyzer



RF Antenna(Return Loss)

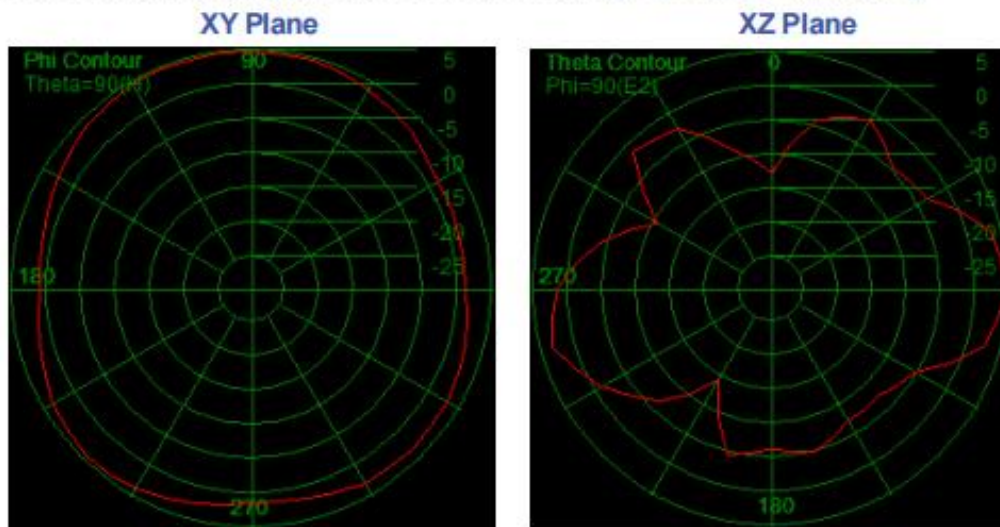


Test Setup



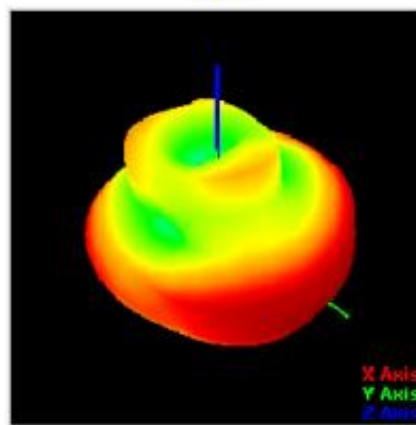
Pattern

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

3D



Test Efficiency

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	860.0	3.72	67.1%
2	865.0	3.98	70.0%
3	870.0	3.75	69.1%
4	875.0	3.54	66.1%
5	880.0	3.70	66.8%
6	885.0	3.67	67.4%
7	890.0	3.39	64.0%
8	895.0	3.25	61.2%
9	900.0	3.49	63.0%
10	905.0	3.36	61.3%
11	910.0	3.21	57.1%
12	915.0	3.23	54.8%
13	920.0	2.91	53.7%
14	925.0	2.59	51.6%
15	930.0	2.22	49.2%

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Physical picture

