



Antenna datasheet

APPROVAL SHEET

F-PCB antenna

Supplier : Lynxtech

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Lynx

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Specification for approval

1. APPLICATION SCOPE

THIS PRODUCT CAN BE USED IN RADIO TELECOMMUNICATION SYSTEM WITH 969MHz Band

2. OPERATING CONDITIONS

NO.	ITEMS	SPECIFICATIONS
2-1	OPERATING ENVIRONMENT	TEMPERATURE : -30~70℃ HUMIDITY : ~85% RH
2-2	STORAGE ENVIRONMENT	TEMPERATURE : -20~60℃ HUMIDITY : ~65% RH

3. ELECTRONIC SPECIFICATIONS

NO	ITEMS	SPECIFICATIONS
3-1	IMPEDANCE	50Ω
3-2	FREQUENCY RANGE	850Mhz ~930MHz
3-3	PEAK GAIN (ON HORIZONTAL)	≤ 3.83 dBi
3-4	VSWR	≤ 2:1

4. APPEARANCE AND MECHANICAL SPECIFICATIONS

NO.	ITEMS	SPECIFICATIONS
4-1	CONNECTOR	DIRECT SOLDERING TO BOARD
4-2	COLOR	NON
4-3	APPEARANCE AND DIMENSION	REFER TO DRAWING
4-4	WEIGHT	0.1g

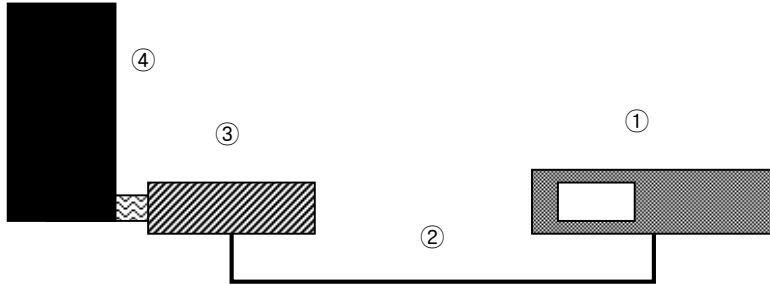
Specification for approval

5. TEST METHOD AND DATA FOR ELECTRONIC SPECIFICATIONS

NO.	ITEMS	SPECIFICATIONS	CONDITION REMARK
5-1	IMPEDANCE	50Ω	850MHz~930MHz
5-2	SWR	≤ 2:1	

Specification for approval

5-3 TEST METHOD



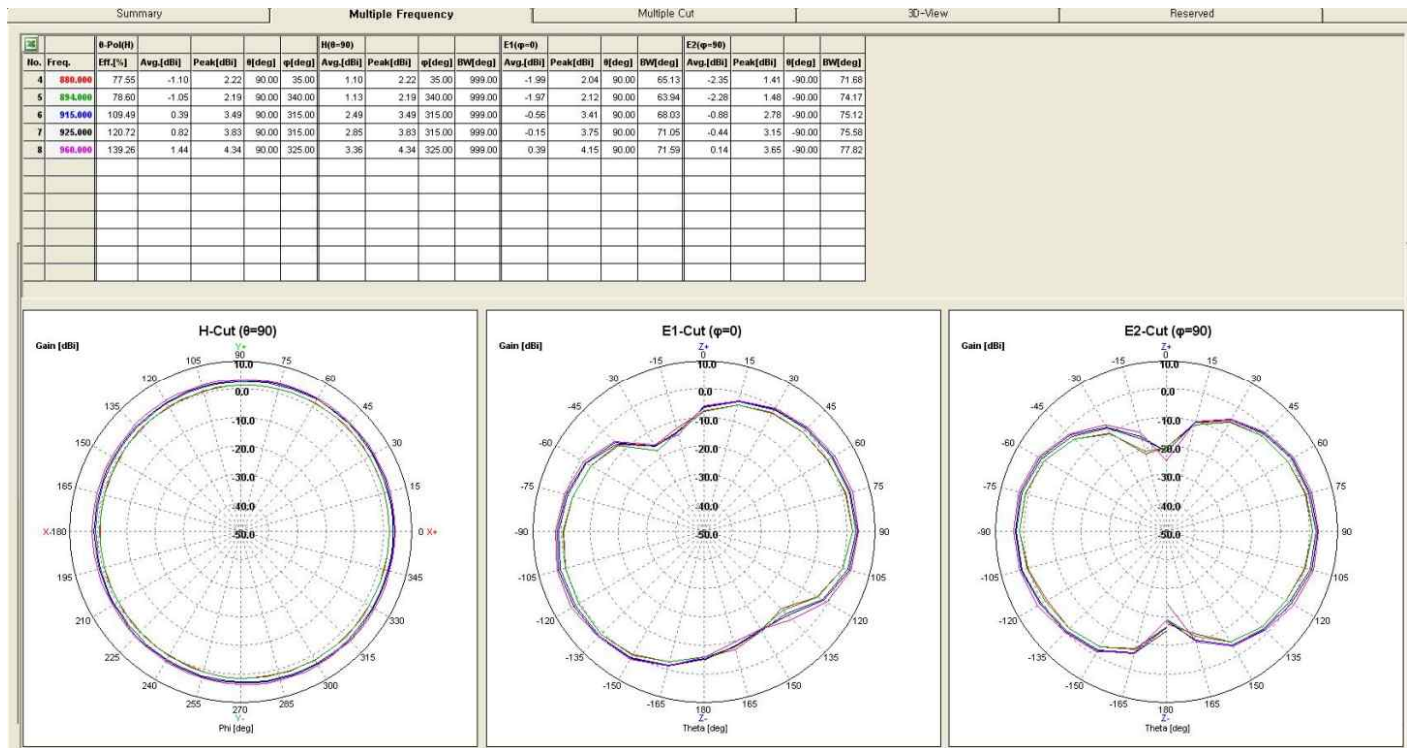
1. Network Analyzer
: Agilent E5071B
2. Signal Interface
: Coaxial Cable
3. SMA connector
4. Test fixture

5-4 TEST DATA (VSWR)



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5-5 TEST DATA (Radiation Pattern)



5-5

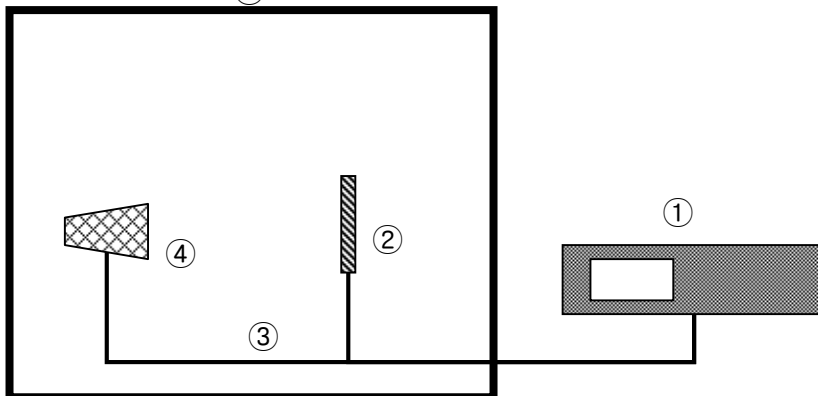
Gain

≤ 0dB

850Mhz ~930MHz

5-6 TEST METHOD

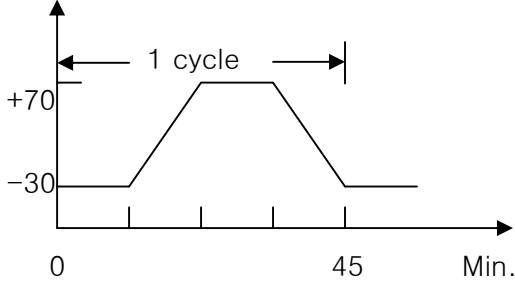
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1. Network Analyzer
: AGILENT E5071C
2. Test Antenna
3. Signal Interface
: Coaxial Cable
4. Received Antenna
: Double Ridged Horn Antenna
5. Shield Room
: Dimension : 7.32 x 4.00 x 4.00 m,
A. Quiet Zone : 30 cm,
B. Isolation : >100 dB

Specification for approval

6. RELIABILITY ASSURANCE

NO	ITEMS	SPECIFICATIONS	
6-1	LOW TEMP EXPOSURE TEST	TEMPERATURE : -30°C TIME : 96 HOURS	AFTER 2HOURS EXPOSURE IN ORDINARY FROM TEST, ANTENNAS SHALL BE APPROVED AS SPECIFIED IN ITEM 5
6-2	HIGH TEMP EXPOSURE TEST	TEMPERATURE : 70°C TIME : 96 HOURS	
6-3	HUMIDITY EXPOSURE TEST	TEMPERATURE : $60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ HUMIDITY : 85%RH TIME : 88 HOURS	
6-4	THERMAL SHOCK	Temperature($^{\circ}\text{C}$)  Test cycle : 20cycles	
6-5	DROP TEST	HEIGHT : 1.5m DIRCCTION : $\pm X$, $\pm Y$, $\pm Z$ DROP TIMES : THREE DROPS PER PLANE	

