

Regulatory Bluetooth Antenna Information

Project Name : E1
Host System : PDA
Antenna Vendor : Amphenol K.A.E.

LG Electronics Inc.

Antenna Information

Section 1. Antenna Assembly Specifications

Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dB)
(P/N: LG-02-03-016)	Amphenol K.A.E Co., Ltd.	PIFA	(P/N:)	2400-2500MHz -3.25 dBi (peak)	2400-2500MHz -3.25 dBi (peak)	2400-2500MHz 1.35 max	2400-2500MHz dB (peak)

Customer DWG

Technical drawing of a mechanical part showing three views: front, side, and top. The front view shows dimensions 2.0, 0.6, 2.9, 5.65±0.05, 0.6±0.05, 1.2, 1.7, 3.65±0.05, 0.6±0.05, ①=12.75±0.05, ③=9.0, and #B Δ0.95. The side view shows dimensions 2.0, 0.6, 3.65±0.05, 0.6±0.05, ①=12.75±0.05, and #B Δ22.0. The top view shows dimensions 2.9, 5.65±0.05, 0.6±0.05, 1.2, 1.7, 3.65±0.05, 0.6±0.05, ①=12.75±0.05, ③=9.0, and #B Δ0.95.

NOTE-

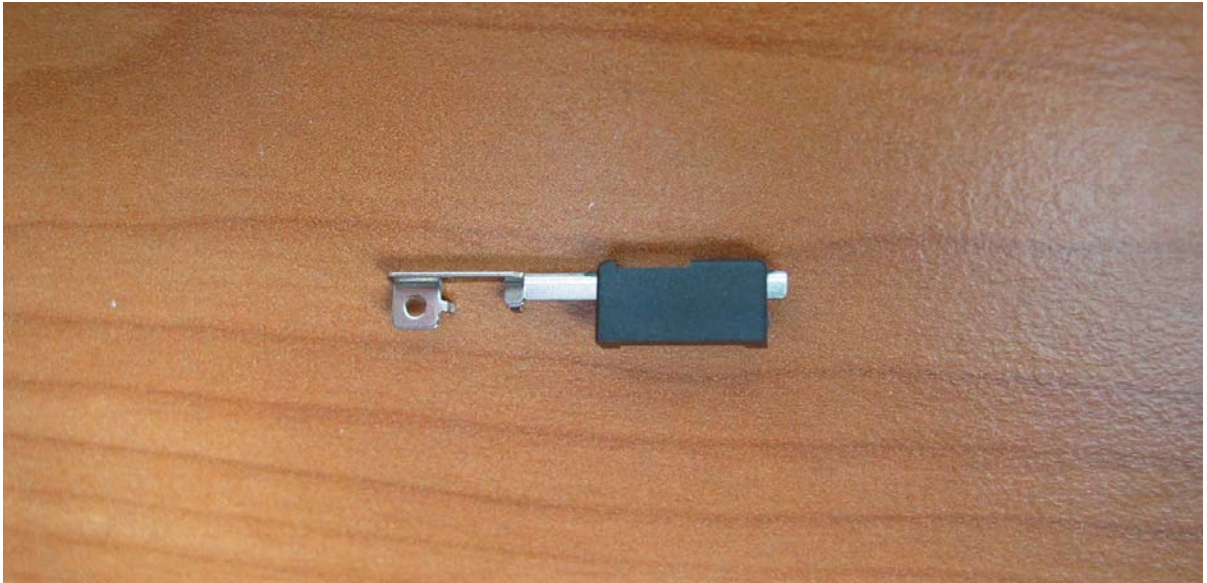
1. 형상 변형 (휨, 비틀림, 굴곡)이 없을 것.
2. 표면 처리 상태는 깨끗할 것.
3. Burr가 없을 것.
4. 용탄도는 0.1mm 이내로 할 것.
5. * 는 중요 관리 치수임.
6. 치사 없는 공차 ±0.1
7. ⊗ 숫자표시는 수입용 사용 Point임.

No	기수 명칭	수량	단위	비고
1	Press	1	개	SUS304-17%Ni
2	Mold	1	개	-
3	부품명	수량	단위	비고
4	소재	1	kg	Ino-3
5	도면 번호	1	개	LG-02-08-016
6	모델명	1	개	LG-02-08-016
7	도면명	1	개	Bluebook Antenna
8	도면번호	1	개	LG-02-08-016
9	도면명	1	개	Bluebook Antenna
10	도면번호	1	개	LG-02-08-016
11	도면명	1	개	Bluebook Antenna
12	도면번호	1	개	LG-02-08-016
13	도면명	1	개	Bluebook Antenna
14	도면번호	1	개	LG-02-08-016
15	도면명	1	개	Bluebook Antenna
16	도면번호	1	개	LG-02-08-016
17	도면명	1	개	Bluebook Antenna
18	도면번호	1	개	LG-02-08-016
19	도면명	1	개	Bluebook Antenna
20	도면번호	1	개	LG-02-08-016

Amphenol KAE

REV. 02

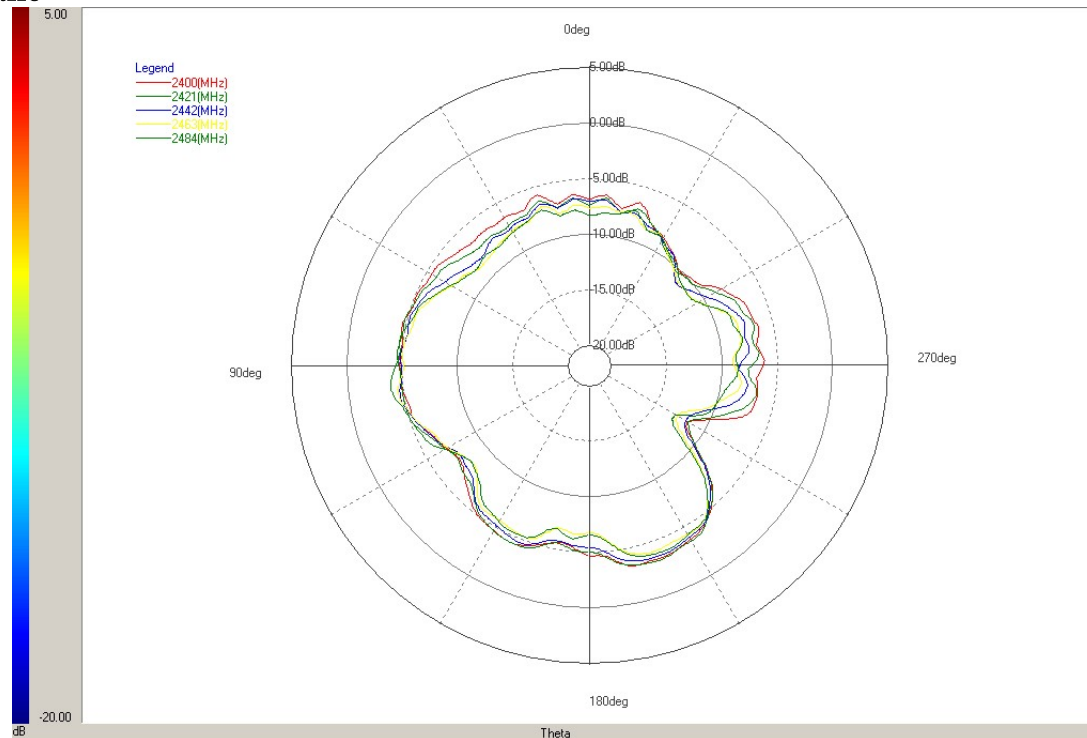
Antenna Photo:



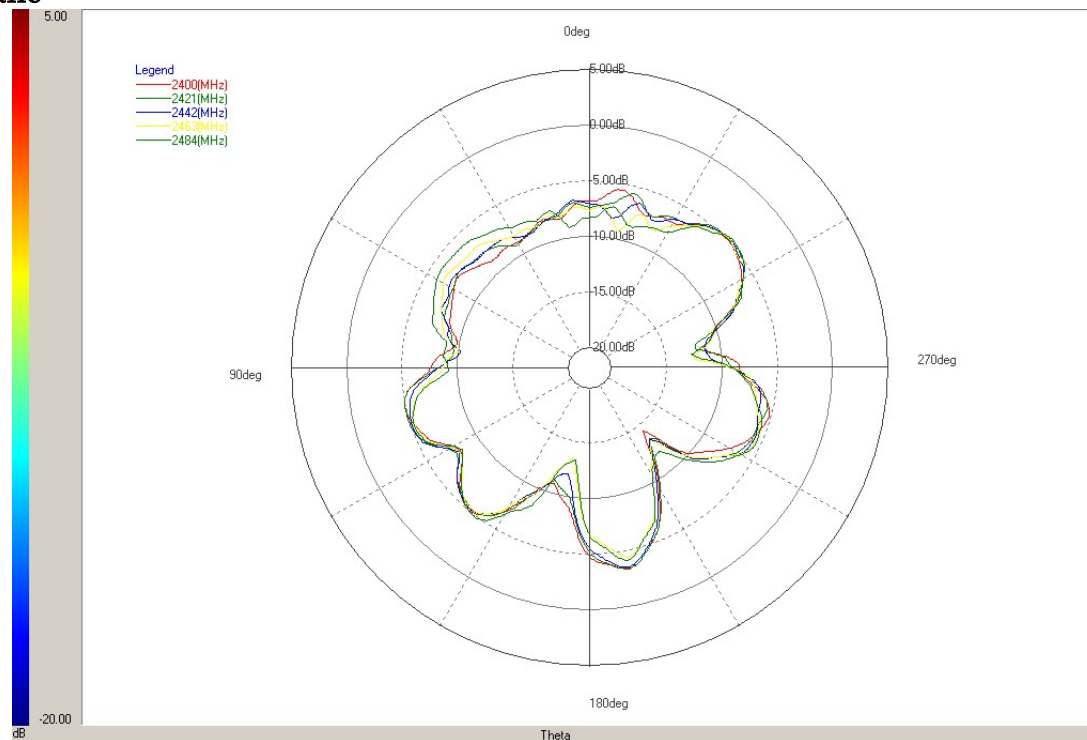
Section 3. Radiation characteristics of antennae Loaded in Host Platform

1. Main antenna Radiation pattern and gain

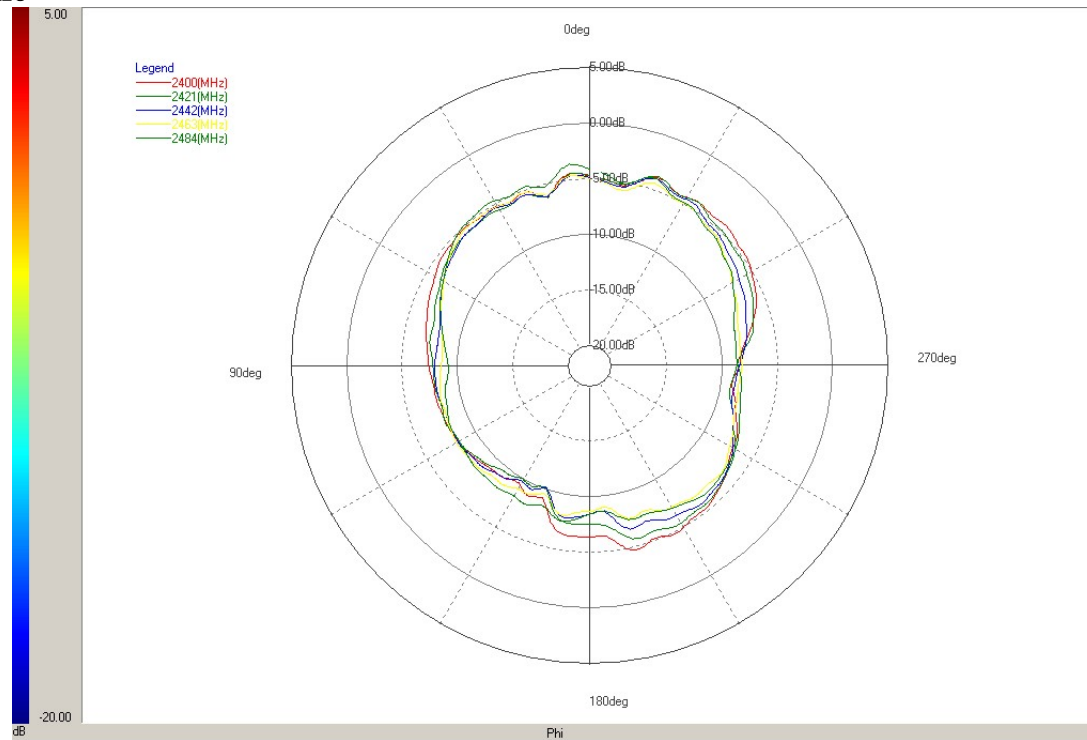
1.1 E1-Plane



1.2 E2-Plane



1.3 H-Panle



1.4 Peak gain (dBi) summary

Frequency (MHz)	E1-plane	E2-plane	<u>H-plane</u>
2400	-3.40 dB	-3.40 dB	-3.92 dB
2421	-3.25 dB	-3.45 dB	-3.82 dB
2442	-3.66 dB	-3.58 dB	-4.06 dB
2463	-4.18 dB	-4.47 dB	-4.49 dB
2484	-3.89 dB	-4.14 dB	-3.70 dB

Section 4. Host Platform Information

Host System : PDA

(Project and Model Name : E1)

Antenna location : Left Side of the Set

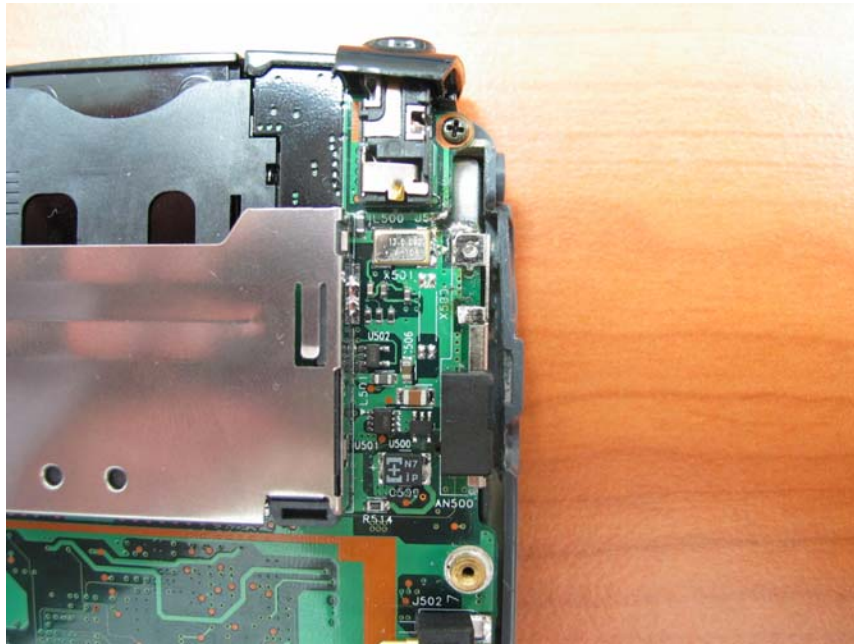
Antenna : Main = Side

Photographs of the antenna location in the E1

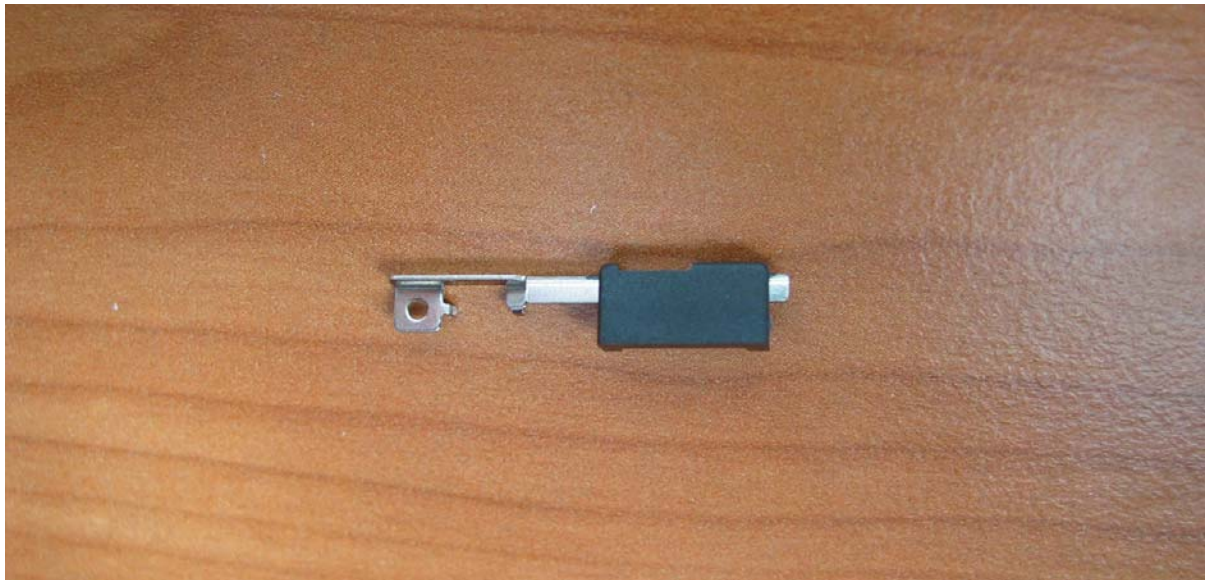


Section 5. Antenna Host Platform Location Information

Antenna location

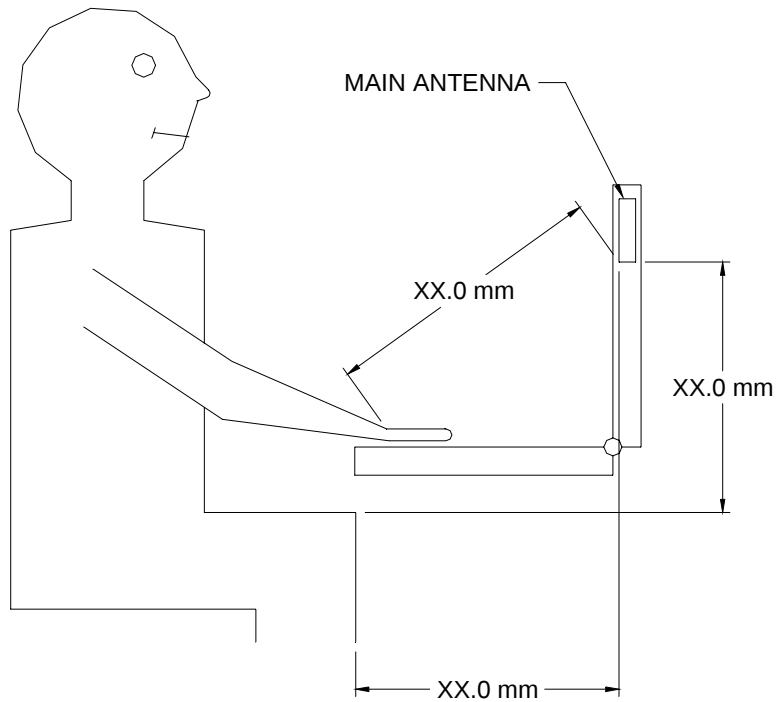


Full antenna picture



Section 6. Antenna dimensional information for SAR evaluation

Include a dimensioned photos or dimensioned drawings showing the distance (mm) between the transmit (main) antenna and the user (excluding hands, wrist, feet, and ankle)



Section 7. Diagram Example of Co-Location Antenna Separation

Indicate distance between WLAN module antennas and Bluetooth/other radio antenna element.

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)

