

승인원

제조사	(주)모카시스템
모델명	AP-HD
제품명	AP-HD BLE Antenna

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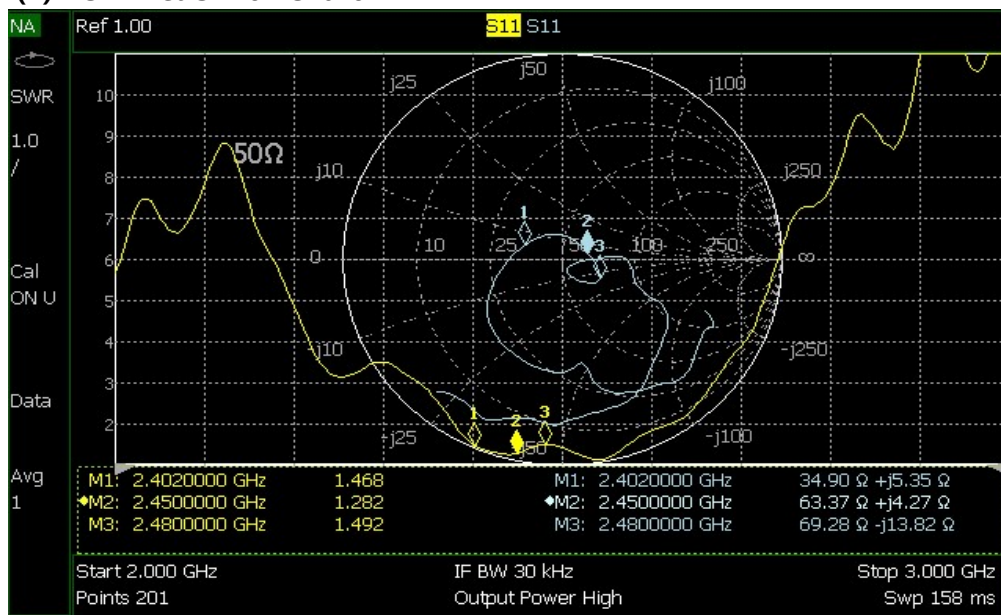
page4 ----- Antennan 도면 및 사진

1. Antenna Spec 및 VSWR

(1) Spec

Band	2.4GHz ISM
Frequency	2.4~2.483GHz
VSWR	≤ 2.0
Peak Gain	-14.15 ~ -12.98 dBi
Avg Gain	-18.65 ~ -17.69 dBi
Directivity	Directional
Polarization	Linear
Impedance	50 Ohms
TYPE	PCB(FR4) type PIFA

(2) VSWR & Smith Chart



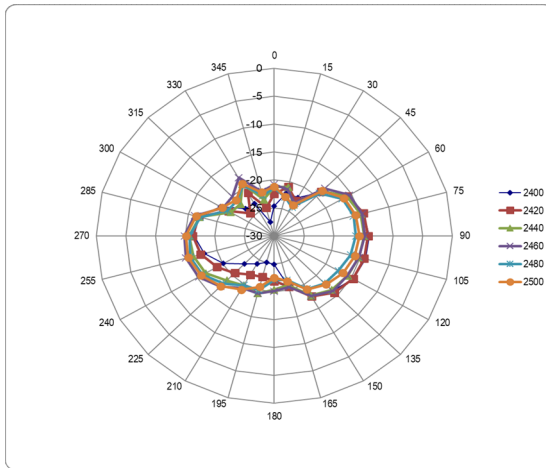
2. Antenna Gain 및 Radiation Pattern

(1) 3D Gain

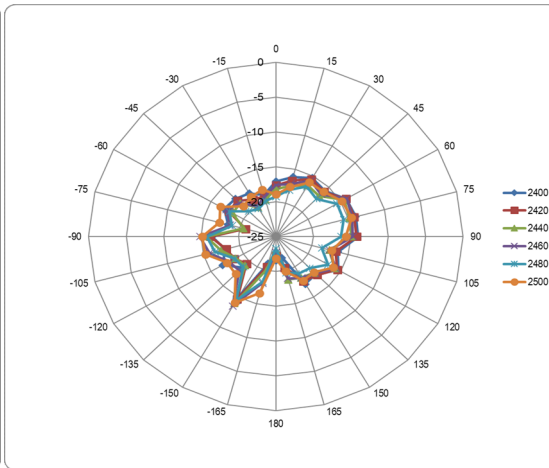
No	Frequency [GHz]	Peak Value		Minimum Value		Avg. Gain [dBi]	Efficiency [%]
		Value[dBi]	Degree	Value[dBi]	Degree		
1	2400	-13.71	75 / 105	-28.76	135 / 180	-18.05	1.57
2	2420	-13.77	75 / 105	-29.75	105 / 225	-18.16	1.53
3	2440	-13.62	150 / 285	-28.99	180 / 315	-18.12	1.54
4	2460	-12.98	105 / 300	-29.60	105 / 195	-17.69	1.70
5	2480	-14.15	150 / 285	-31.28	105 / 195	-18.65	1.37
6	2500	-13.40	105 / 300	-29.27	105 / 195	-17.84	1.65
7							
8							

(2) Radiation Pattern (2D)

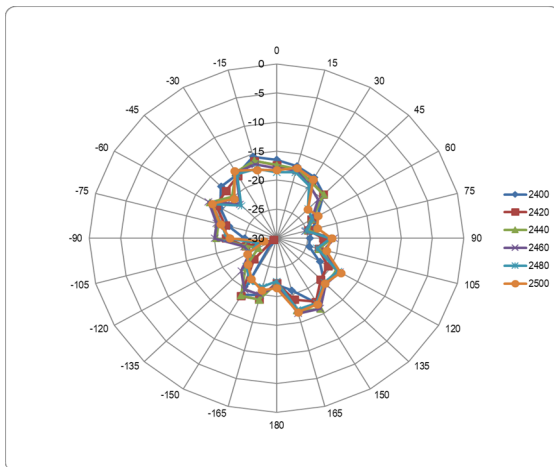
-.H Plane



-.E1 Plane

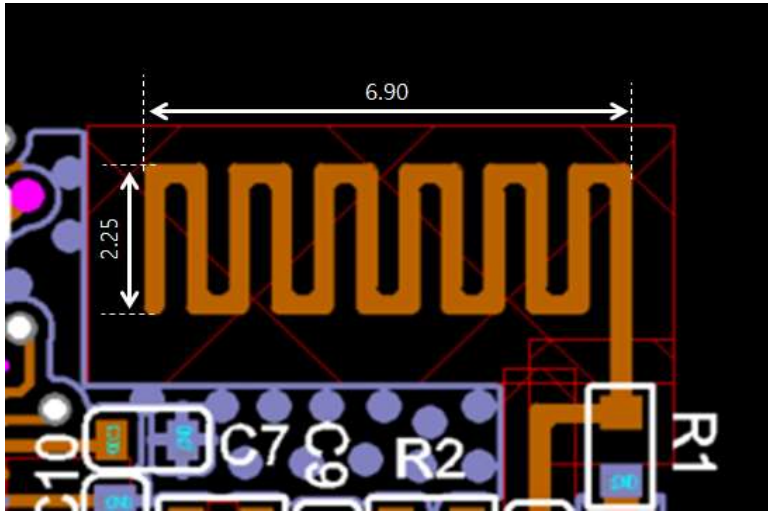


-.E2 Plane



3. Antennan 도면 및 사진

(1) Antenna 도면



(2) Antenna 사진

