


SPECIFICATIONS

PRODUCT NAME : Wi-Fi Single Band Antenna

MODEL NAME : TWFMKB304D

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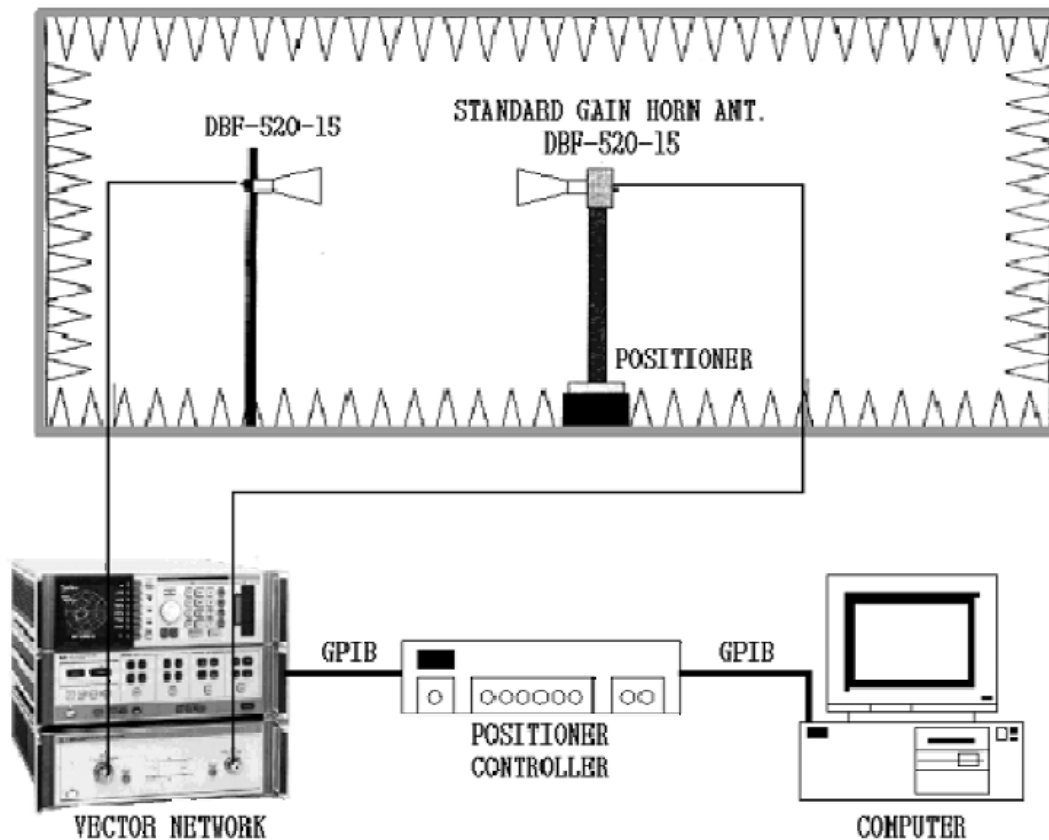
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1. Features

- WiFi Single band antenna
: Omni directivity pattern
- Center frequency
: 2.44GHz
- Operating frequency band
: 2.400~2.485GHz
- Operating temperature range
: -35 to +95°C (typ.)
- Dimension (13.9 x 3.3 x 2.4mm)
: Material is a thin plate

2. Test condition

- OTA 3D chamber

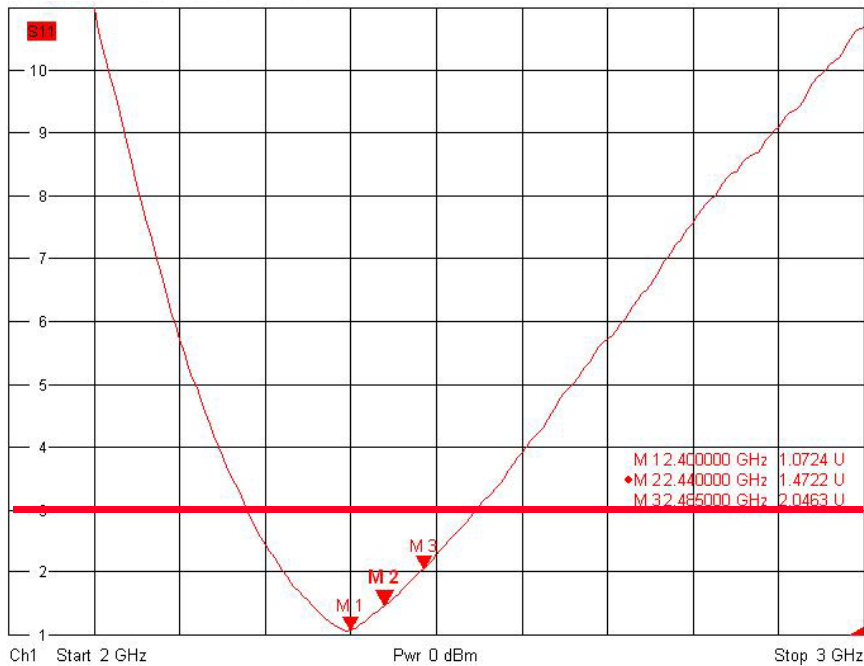




3. Characteristics

Parameter		Min	Typ	Max	Unit
2400~2485		2400	2440	2500	MHz
Average gain	2400~2485GHz	-2.34			dBi
Peak gain	2400~2485GHz	0.77			
V.S.W.R		-	-	3.0	unde r
Impedance		50			Ohm

3.1 VSWR

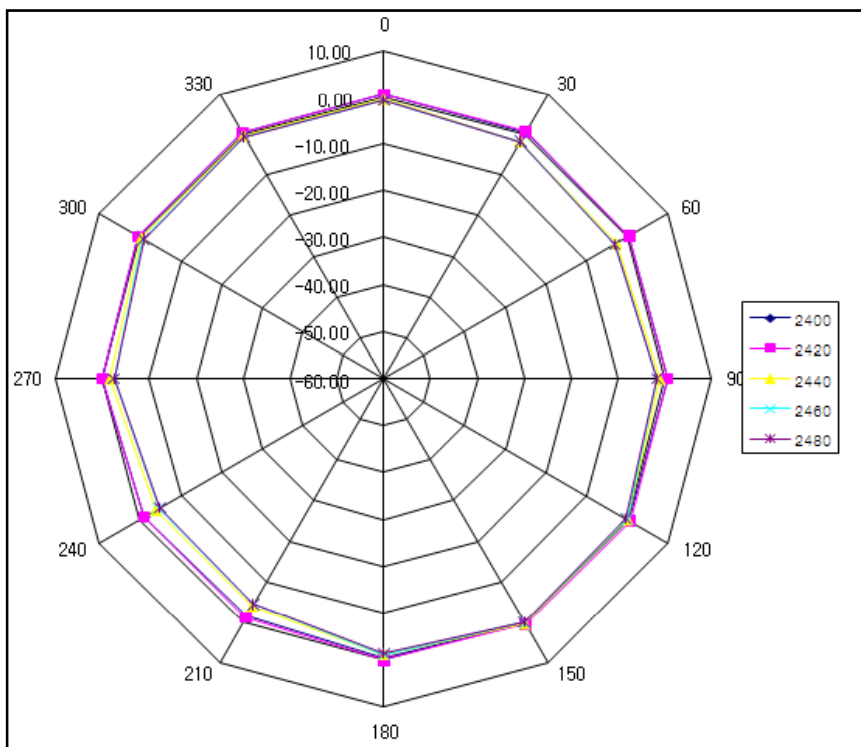




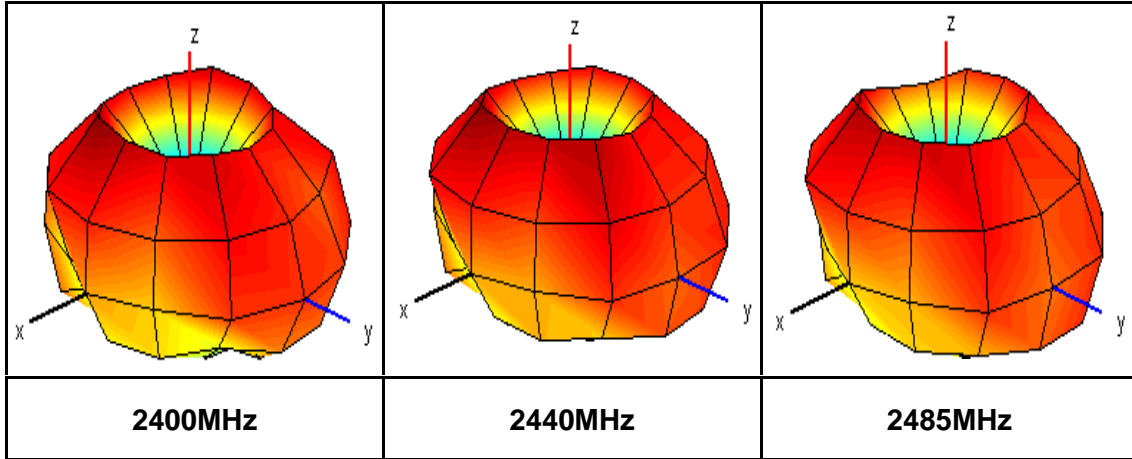
3.2 Air passive performance

	1	2	3	4	5	6	7	8	9	10
Frequency(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2485
Efficiency(dB)	-2.37	-2.23	-2.21	-2.27	-2.34	-2.39	-2.45	-2.39	-2.33	-2.39
Efficiency(%)	57.92	59.79	60.13	59.29	58.32	57.69	56.88	57.73	58.51	57.73
TRG(dB)	-2.37	-2.23	-2.21	-2.27	-2.34	-2.39	-2.45	-2.39	-2.33	-2.39
TRG _{Theta} (dB)	-3.76	-3.59	-3.56	-3.58	-3.61	-3.61	-3.63	-3.57	-3.49	-3.57
TRG _{Phi} (dB)	-7.99	-7.95	-7.95	-8.11	-8.30	-8.48	-8.68	-8.61	-8.63	-8.60
UHRG(dB)	-5.73	-5.57	-5.52	-5.55	-5.58	-5.58	-5.58	-5.46	-5.40	-5.54
UHRG/TRG(%)	46.13	46.41	46.67	46.98	47.39	47.91	48.59	49.28	49.26	48.34
H-Plane	-4.47	-4.26	-4.22	-4.16	-4.15	-4.15	-4.03	-3.94	-3.78	-3.91
E1-Plane, AVG(dB)	-4.24	-4.02	-3.98	-3.96	-3.94	-3.92	-3.76	-3.72	-3.67	-3.80
E2-Plane, AVG(dB)	-3.12	-2.99	-3.01	-3.06	-3.12	-3.10	-3.25	-3.18	-3.13	-3.25
Peak Gain(dB)	0.59	0.71	0.77	0.66	0.70	0.64	0.48	0.45	0.44	0.47
Directivity(dB)	2.96	2.94	2.98	2.93	3.04	3.03	2.93	2.83	2.77	2.86
Minimum Gain(dB)	-7.76	-7.84	-7.60	-7.79	-7.93	-7.92	-8.28	-7.94	-7.89	-7.66

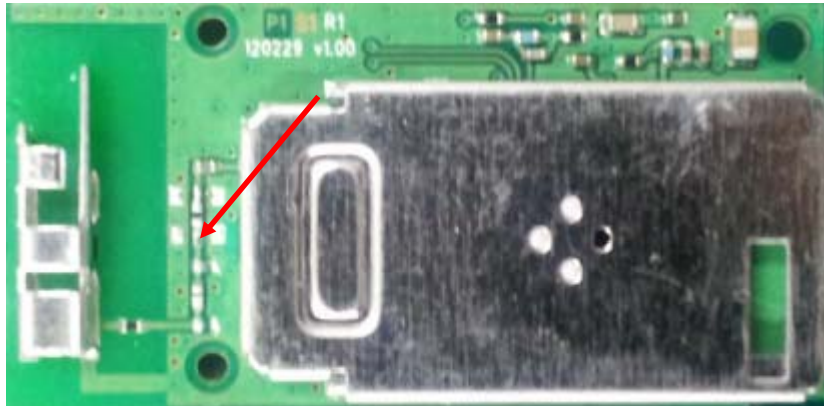
3.3. 2D Radiation Pattern



3.4. 3D Radiation Pattern



3.5. Test point



4. ANT Dimension

