

AD-516AX

Antenna Approval Sheet

Part Number	R3410A14057
Product Number	AD-516AX
Description	Dipole Antenna,1.65dBi / 4.48dBi 2.4G/5G~6GHz, I-PEX/MHF4 connector L:250mm
DOC NO	AS-2411001

Ver. 1.1

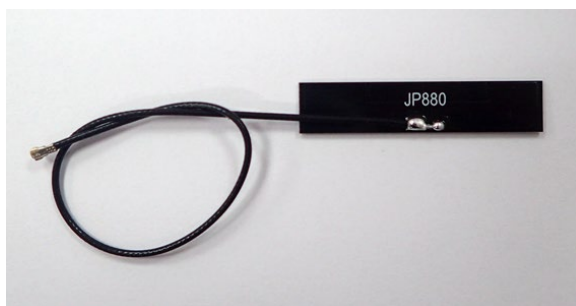
Revised History

[illegible]

SparkLAN		Customer
Sales	PM	Approval by
		

Antenna type : Dipole

AD-516AX



Electrical Specifications

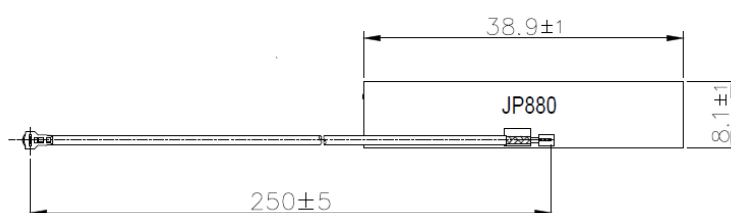
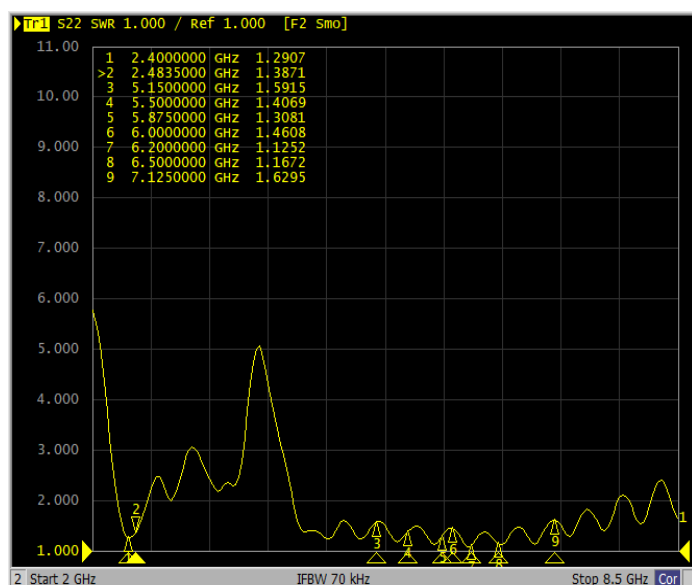
Frequency range	2400 - 2500 MHz	5150 - 5350 MHz	5470 - 5850 MHz	5895 - 7125 MHz
Peak Gain	1.65 dBi	2.89 dBi	4.30 dBi	4.0 dBi
Average gain	-1.67 dBi	-1.87 dBi	-2.34 dBi	-2.36 dBi
VSWR	2.0 : 1 Max.	2.0 : 1 Max.	2.0 : 1 Max.	2.5 : 1 Max.
Impedance	50 Ω			
Dimensions	38.9 x 8.1 mm			
Antenna Material	FR4			
Connector	I-PEX MHF4			
Cable	$\varnothing$ 1.13 / L:250mm			

*Antenna measured on a 2mm thick ABS plastic base

Environmental & Mechanical Characteristics

Temperature	- 10°C to +55°C
Humidity	95% @ 25°C

VSWR

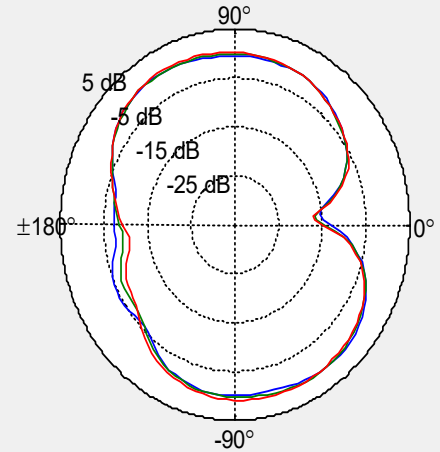
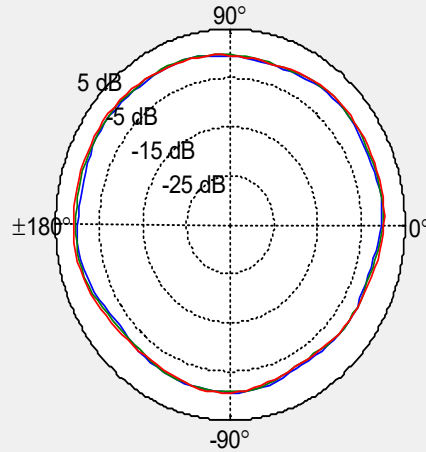
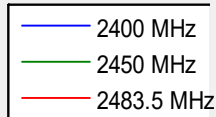


Antenna Pattern

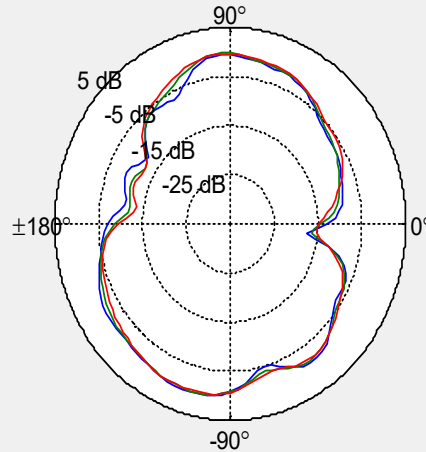
2G Band = 2400 - 2500 MHz % 2G BAND

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X

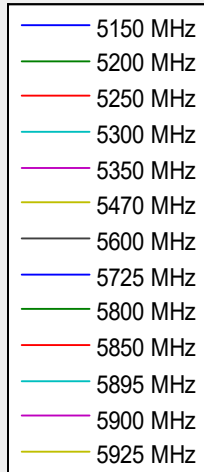


YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X

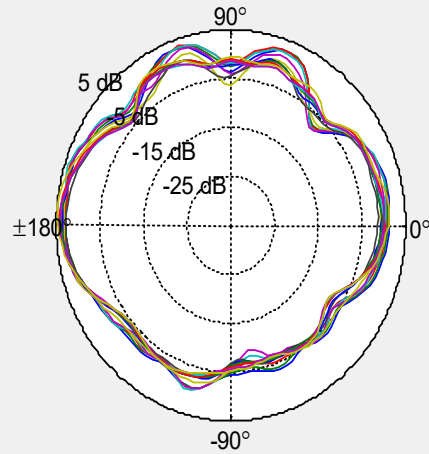


Antenna Pattern

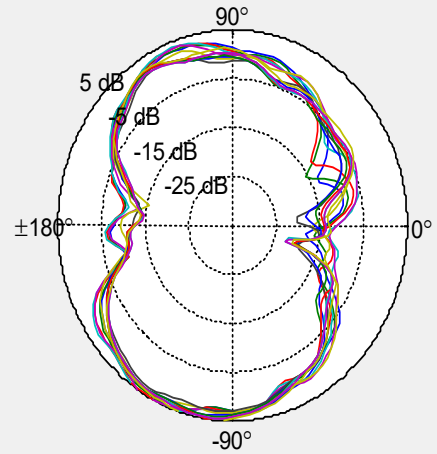
5G Band = 4900 - 5975 MHz



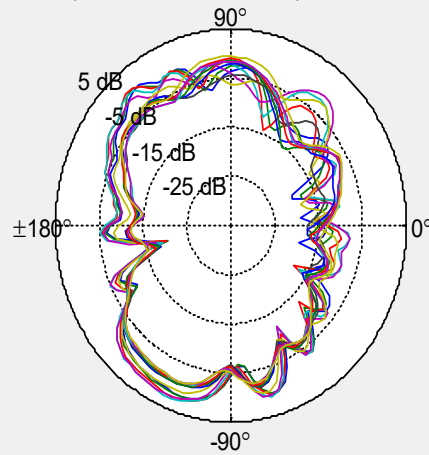
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X

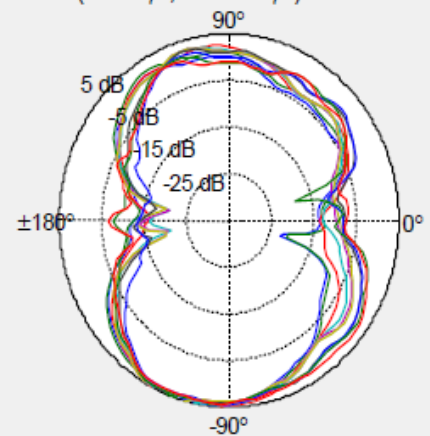
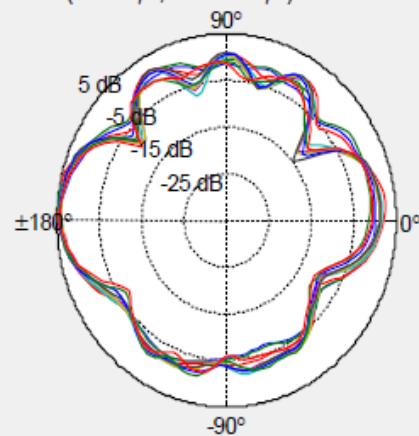
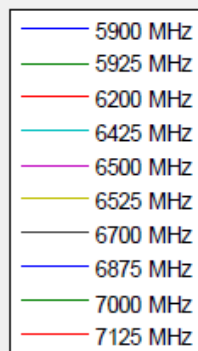


Antenna Pattern

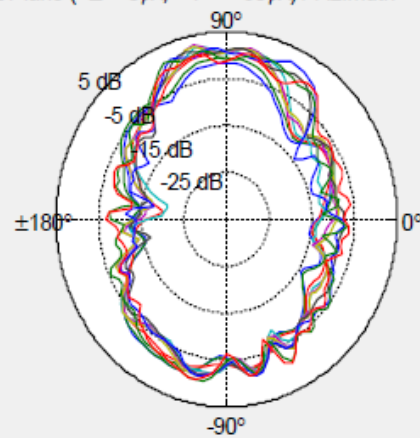
6G Band = 5900 - 8500 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



Gain Table

Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
2400.00	67.47	-1.71	1.65
2450.00	67.62	-1.70	1.38
2483.50	69.38	-1.59	1.04
5150.00	62.80	-2.02	2.82
5200.00	62.85	-2.02	2.75
5250.00	66.92	-1.74	2.68
5300.00	66.25	-1.79	2.80
5350.00	66.46	-1.77	2.77
5470.00	62.87	-2.02	4.30
5600.00	59.56	-2.25	3.72
5725.00	56.12	-2.51	3.98
5800.00	55.87	-2.53	3.84
5850.00	57.70	-2.39	3.98
5895.00	53.99	-2.68	3.84
5900.00	54.37	-2.65	3.85
5925.00	62.47	-2.04	3.82
6200.00	61.89	-2.08	3.83
6425.00	58.18	-2.35	4.00
6500.00	58.54	-2.33	3.95
6525.00	59.00	-2.29	3.91
6700.00	59.05	-2.29	3.86
6875.00	56.66	-2.47	3.76
7000.00	59.11	-2.28	3.78
7125.00	56.27	-2.50	3.73

