

WF-R4

Product Description

The WF-R4 is a low-profile swivel antenna of Wi-Fi 6E bands in 2.4GHz, 5 GHz and 6 GHz. With rugged weather-resistant material and omni-directional signal reradiation design, the industrial-grade central screw mount outdoor antenna is easy to install and is able to meet commercial applications and industrial standards in both Europe Union and America.

Highlight

- ✓ Metal screw mount, easy installation
- ✓ Waterproof, weather-resistant
- ✓ Omni directional and wide-band reradiation pattern

Applications

- ✓ Wi-Fi 6E in 2.4GHz, 5GHz, 6GHz bands
- ✓ Machine-to-machine, SCARDA
- ✓ IoT Gateway, routers, Grid meters

Wi-Fi 6E Stubby Antenna



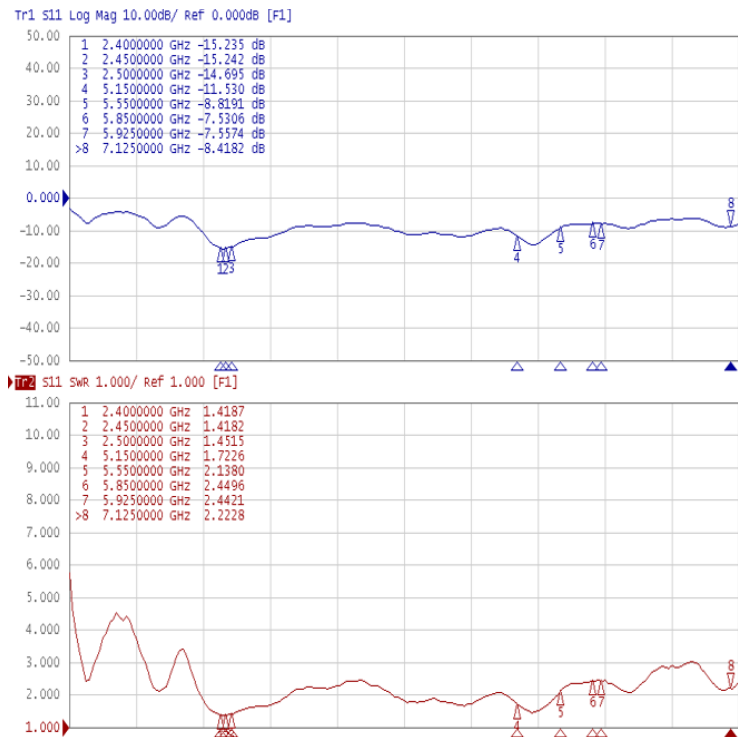
Mechanical Specification

Dimension	19 (dia.) x 61mm
Mounting	Through hole(3M tape optional)
Cable	OD#1.37 - Standard
Connector	IPEX – Standard
Enclosure Material	ABS
Operating Temperature	-35°C to 85°C
Storage Temperature	-40°C to 85°C

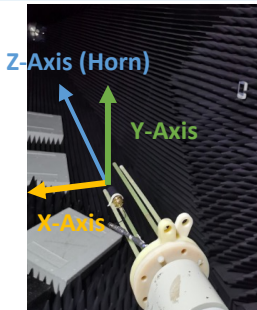
Mechanical Specification

Frequency	2400 ~ 2500MHz 5,180 ~ 5,850MHz 5,925 ~ 7,125MHz
Gain (Peak)	2,400 ~ 2,500MHz: 3.29dBi 5,180 ~ 5,850MHz: 5.11dBi 5,925 ~ 7,125MHz: 3.00dBi
Efficiency (Peak)	2,400 ~ 2,500MHz: 79.65% 5,180 ~ 5,850MHz: 70.12% 5,925 ~ 7,125MHz: 50.00%
VSWR	< 2.5:1
Impedance	50Ω
Polarization	Omni-Directional

VSWR & Return Loss



Antenna Measurement & Setup in Anechoic Chamber

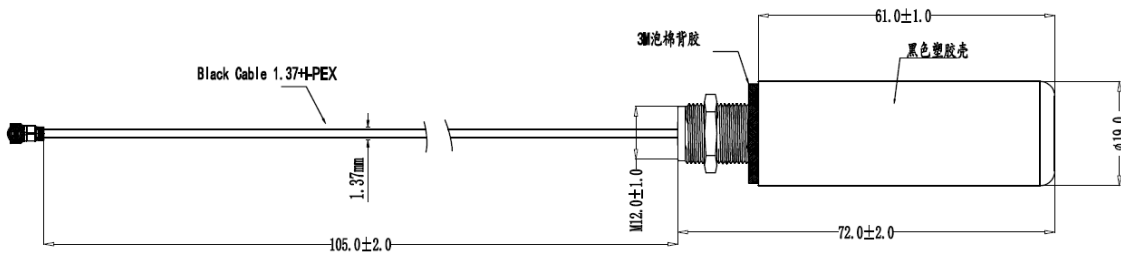


Frequency	Efficiency	Gain	Frequency	Efficiency	Gain
2400	74.24%	2.88	5160	65.64%	4.10
2410	75.75%	2.89	5180	68.51%	4.47
2420	77.33%	2.87	5200	68.83%	4.63
2430	78.08%	2.81	5220	70.12%	4.93
2440	78.47%	2.85	5240	68.90%	5.06
2450	78.23%	2.87	5260	67.44%	5.11
2460	78.36%	2.91	5280	64.74%	5.02
2470	78.37%	3.00	5300	62.14%	4.81
2480	78.28%	3.08	5320	60.53%	4.84
2490	79.32%	3.21	5340	59.97%	4.84
2500	79.65%	3.29	5360	61.74%	4.93
2400	74.24%	2.88	5160	65.64%	4.10
2410	75.75%	2.89	5180	68.51%	4.47
2420	77.33%	2.87	5200	68.83%	4.63
2430	78.08%	2.81	5220	70.12%	4.93
2440	78.47%	2.85	5240	68.90%	5.06
2450	78.23%	2.87	5260	67.44%	5.11
2460	78.36%	2.91	5280	64.74%	5.02
2470	78.37%	3.00	5300	62.14%	4.81
2480	78.28%	3.08	5320	60.53%	4.84
2490	79.32%	3.21	5340	59.97%	4.84
2500	79.65%	3.29	5360	61.74%	4.93

Antenna Measurement & Setup in Anechoic Chamber

Frequency	Efficiency	Gain	Frequency	Efficiency	Gain
5380	61.82%	4.94	5700	52.06%	4.06
5400	62.27%	4.95	5720	52.15%	3.93
5420	61.01%	4.86	5740	52.31%	3.71
5440	60.36%	4.88	5760	50.33%	3.66
5460	59.24%	4.72	5780	51.36%	3.73
5480	58.23%	4.62	5800	51.33%	3.77
5500	55.65%	4.45	5820	51.40%	3.74
5520	55.59%	4.48	5840	52.31%	3.76
5540	54.63%	4.51	5600	55.87%	4.68
5560	53.69%	4.44	5640	55.46%	4.65
5580	56.05%	4.62	5660	54.73%	4.54
5380	61.82%	4.94	5680	53.64%	4.41
5400	62.27%	4.95	5700	52.06%	4.06
5420	61.01%	4.86	5720	52.15%	3.93
5440	60.36%	4.88	5740	52.31%	3.71
5460	59.24%	4.72	5760	50.33%	3.66
5480	58.23%	4.62	5780	51.36%	3.73
5500	55.65%	4.45	5800	51.33%	3.77
5520	55.59%	4.48	5820	51.40%	3.74
5540	54.63%	4.51	5840	52.31%	3.76
5560	53.69%	4.44	5780	51.36%	3.73
5580	56.05%	4.62	5800	51.33%	3.77
5600	55.87%	4.68	5820	51.40%	3.74
5620	55.65%	4.67	5840	52.31%	3.76
5640	55.46%	4.65	5860	52.79%	3.85
5660	54.73%	4.54	5925	50.00%	3.00
5680	53.64%	4.41	7125	49.00%	3.00

Antenna Drawing



- A. Adhesive tape is optional.
- B. Cable & connector can be customized.
- C. Cable through hole mounting method.