COWIN

Product Datasheet

Omni Fiberglass Antenna

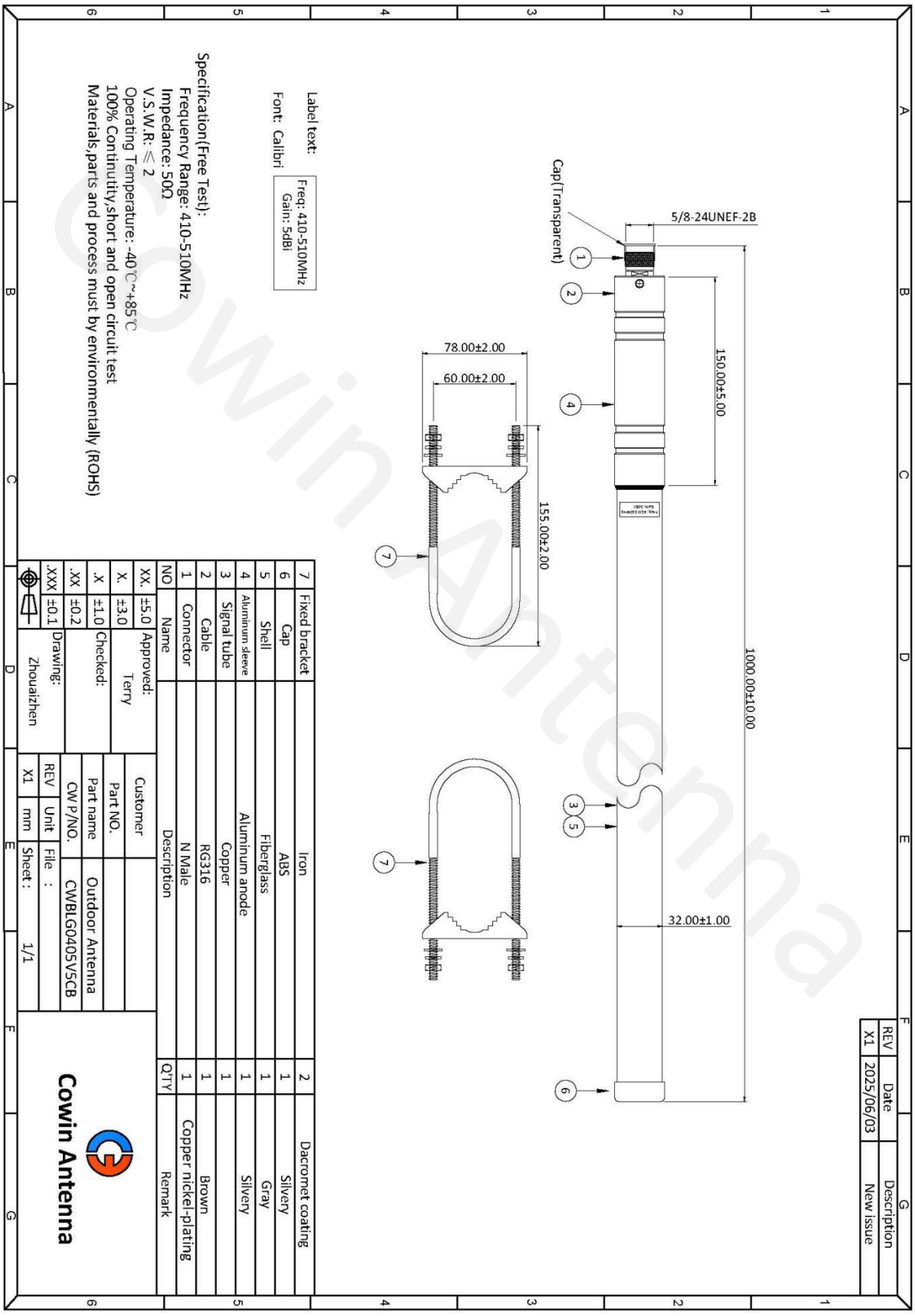


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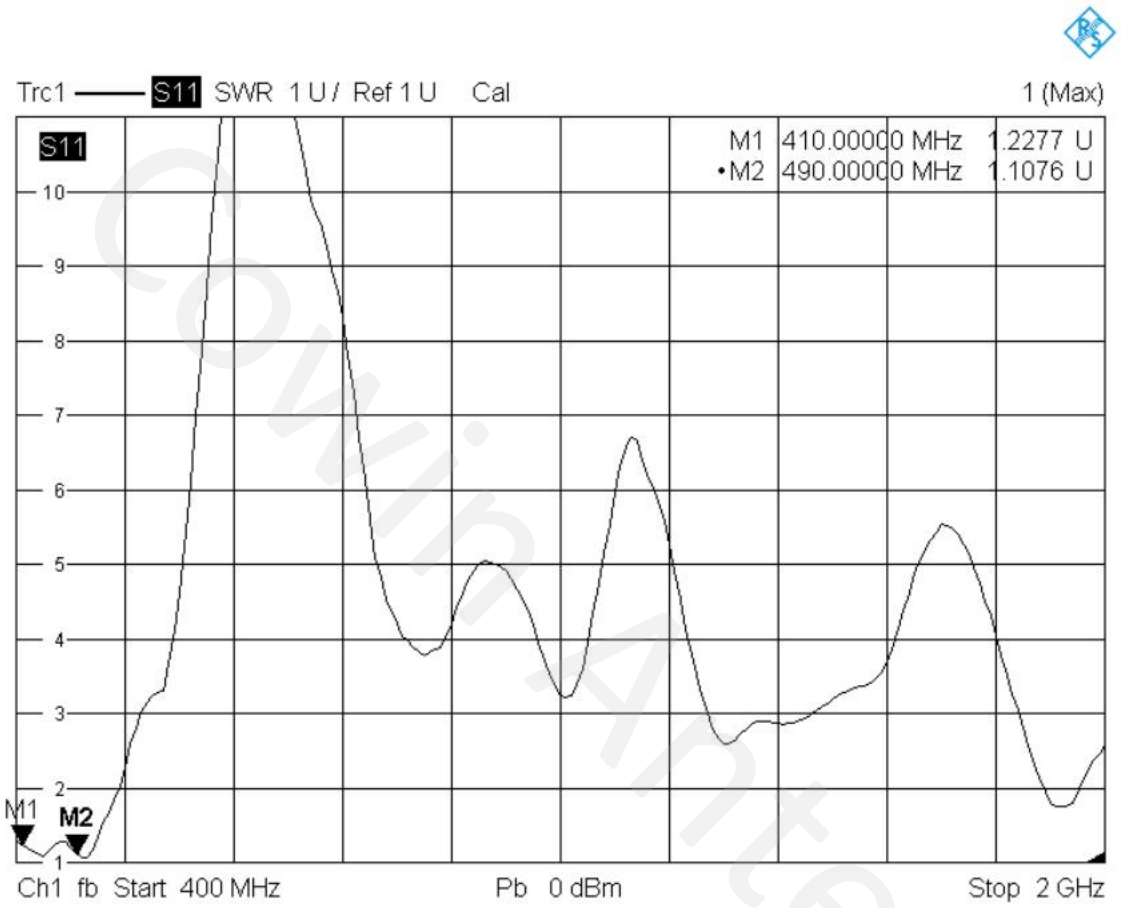
Electrical Specifications 电性指标	
Part Number 料号	**CWBLG0405V5CB**
Frequency Range 频率范围	**410-510MHz**
Bandwidth 带宽	**100MHz**
Peak Gain 峰值增益	**5dBi**
Radiation Direction 辐射方向	**Omnidirectional**
Polarization 极化方式	**Vertical**
Electrical Downtilt 电下倾角	**/**
Half Power Beamwidths 半功率波瓣宽度	**/**
First Upper Sidelobe Suppression 第一上旁瓣抑制	**/**
Front-to-rear ratio 前后比	**/**
Impedance 输入阻抗	**50Ω**
VSWR 电压驻波比	**≤2.5**
Maximum Power 最大功率	**100W**
Lightning Protection 雷电保护	**DC Grounding**

Mechanical Specifications 机械性能	
Connector Type 接头类型	**N Male**
Connector Position 接头位置	**Bottom**
Cable type 线材类型	**/**
Antenna Size 天线尺寸	**1000*32MM**
Antenna Weight 天线重量	**1.5KG**
Radome Material 外罩材料	**Fiberglass**
Radome Colour 外罩颜色	**Gray**
Mechanically Adjustable Tilt Angle 机械可调倾角	**/**
Temperature Range 温度	**-40-85℃**
Extreme Wind Speed 极限风速	**60m/s**
Pole Diameter 抱杆直径	**30-50MM**
Mounting Method 安装方式	**Bracket Mount**
Mounting Model 安装件型号	**HXJM008/Dacromet**
Environmental Standards 环保标准	**ROHS/REACH**

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Cap(Transparent)
5/8-24UNEF-2B
150.00±5.00
1000.00±10.00
78.00±2.00
60.00±2.00
155.00±2.00
32.00±1.00
Label text:
Font: Calibri
Freq: 410-510MHz
Gain: 5dBi
Specification(Free Test):
Frequency Range: 410-510MHz
Impedance: 50Ω
V.S.W.R: ⩽ 2
Operating Temperature: -40℃~+85℃
100% Continuity,short and open circuit test
Materials,parts and process must by environmentally (ROHS)
7 Fixed bracket Iron 2 Dacromet coating
6 Cap ABS 1 Silvery
5 Shell Fiberglass 1 Gray
4 Aluminum sleeve Aluminum anode 1 Silvery
3 Signal tube Copper 1
2 Cable RG316 1 Brown
1 Connector N Male 1 Copper nickel-plating
NO Name Description Q'TY Remark
XX. ±5.0
X. ±3.0
.X ±1.0
.XX ±0.2
.XXX ±0.1
Approved: Terry
Checked:
Drawing: Zhouaizhen
Customer
Part NO.
Part name Outdoor Antenna
CW P/NO. CWBLG0405V5CB
REV X1
Unit mm
File :
Sheet : 1/1
Cowin Antenna
REV X1
Date 2025/06/03
Description New issue
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V.S.W.R



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Efficiency

Frequency (MHz)	Efficiency (%)
410	63.34
435	62.06
460	63.44
485	60.55
510	64.67

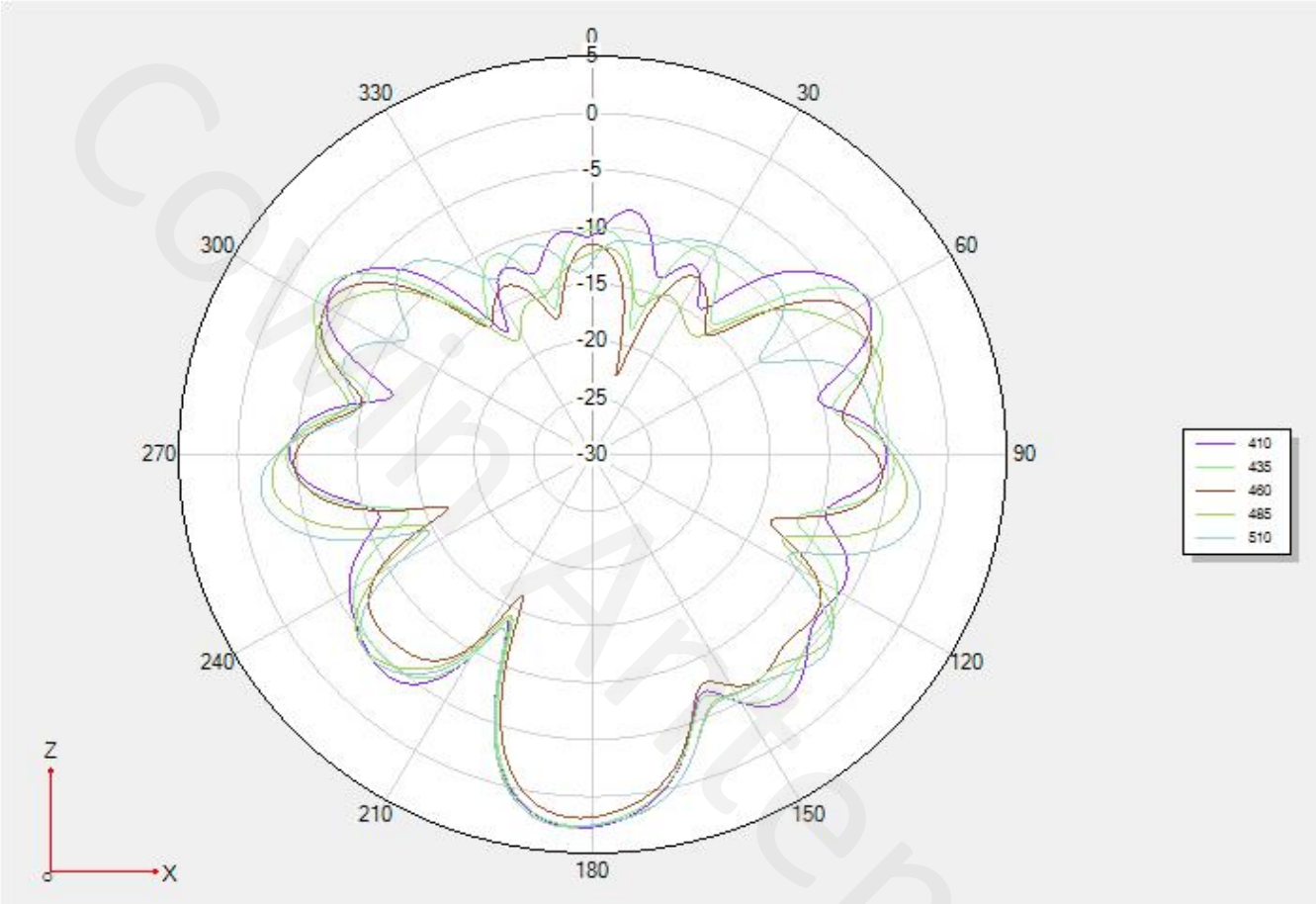
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Peak Gain

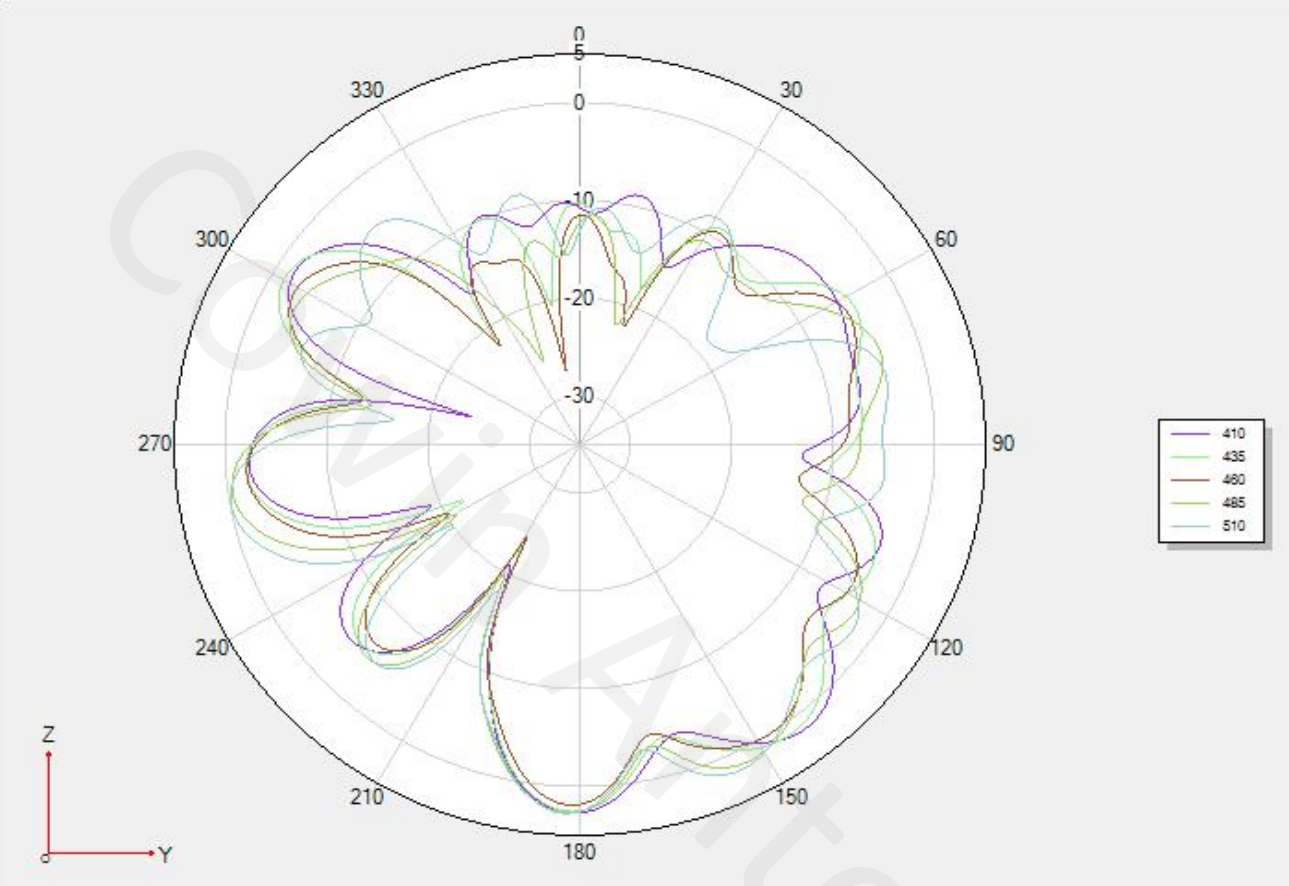
Frequency (MHz)	Max Gain (dBi)
410	4.79
435	4.66
460	4.98
485	4.81
510	4.89

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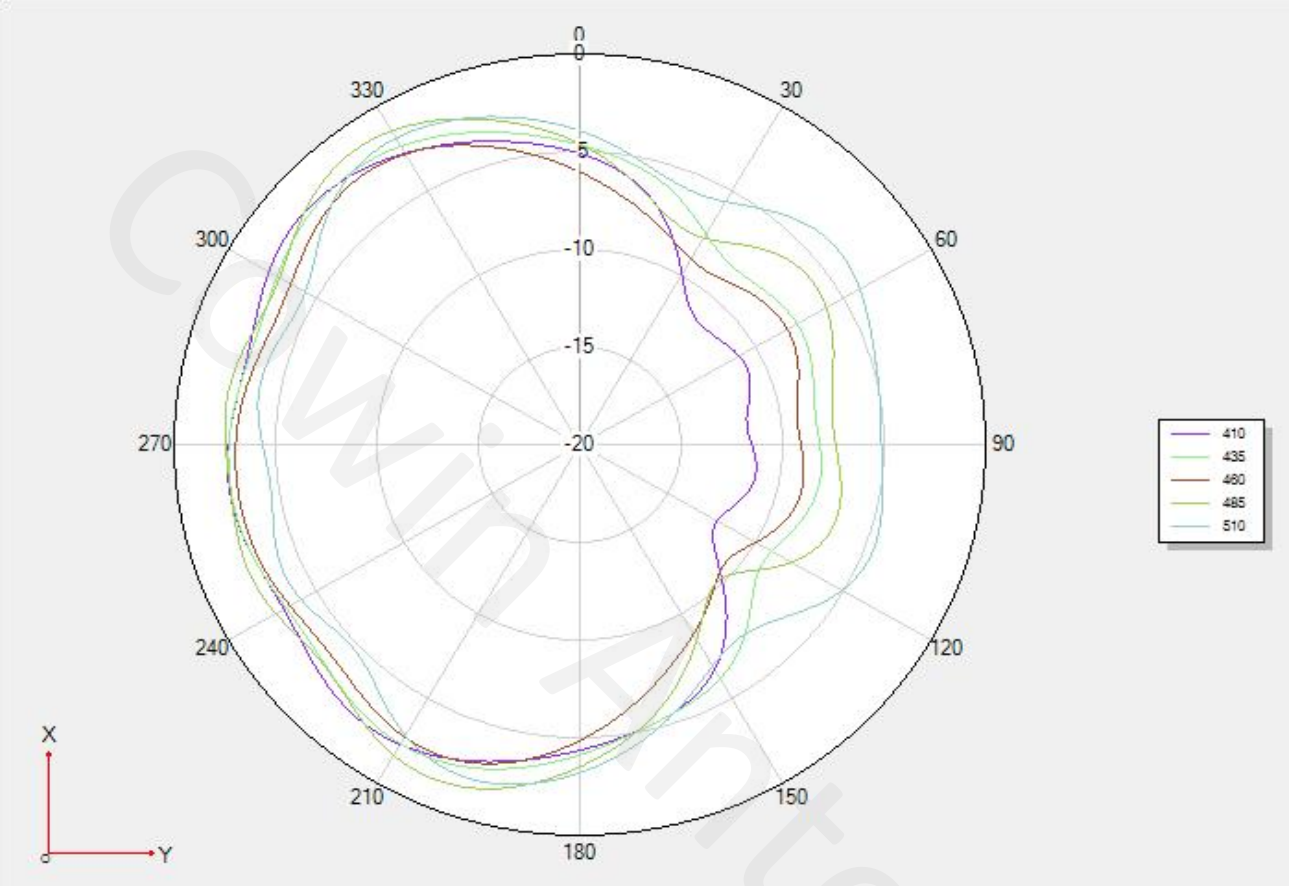
2D Radiation Patterns



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