

3dBi 2.4/5.8GHz Omni Fiberglass Antenna



Electrical Specifications 电性指标

Part Number 料号	CWBLG2458V1SGN-U	
Frequency Range 频率范围	2400-2500MHz	5150-5850MHz
Bandwidth 带宽	100MHz	700MHz
Peak Gain 峰值增益	3dBi	
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	≤ 2.0	
Maximum Power 最大功率	50W	
Lightning Protection 雷电保护	DC Grounding	

Mechanical Specifications 机械性能

Connector Type 接头类型	Rotatable N Male
Connector Position 接头位置	Bottom
Cable type 线材类型	/
Antenna Size 天线尺寸	150*20MM
Antenna Weight 天线重量	0.1KG
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	/
Mounting Method 安装方式	Used in conjunction with magnetic suction plates and other mounting bases
Mounting Model 安装件型号	/
Environmental Standards 环保标准	ROHS/REACH



REV		Date	Description
X1	2026/05/29	New issue	

Technical drawing of the Cowin Antenna. The top view shows a rectangular antenna with a central label area. Dimensions include a total length of 150.00±3.00, a central section length of 60.00±3.00, and a mounting hole diameter of Ø2.00±1.00. The side view shows the antenna's profile with a height of 85.00±5.00 and a mounting bracket width of 73.00±2.00. The mounting holes are spaced 58.00±2.00 apart. The antenna is labeled with '5/8-24UNEF-2B' and 'Cap (Transparent)'.

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Label text:

Font: Calibri

Freq: 2.4/5.8G

Gain: 3dBi

Specification(Free Test):

Frequency Range: 2400-2500/5150-5850MHz

Impedance: 50Ω

V.S.W.R: ≤ 2.0

Power range: 50W

Operating Temperature: -40℃~+80℃

100% Continuity,short and open circuit test

Materials,parts and process must by environmentally (ROHS and REACH)

7	Fixed bracket	Iron	2	Dacromet coating
6	Cap	ABS	1	Gray
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	QTY	Remark
XX	±5.0	Approved:		
X	±3.0	Terry		
.X	±1.0	Checked:		
.XX	±0.2	Part name	Outdoor Antenna	
.XXX	±0.1	CW P/NO.	CWBLG2458V1SGN-U	
XXX	±0.1	Drawing:		
XXX	±0.1	Zhouaizhen		
XXX	±0.1	REV	X1	
XXX	±0.1	Unit	mm	
XXX	±0.1	File	1/1	
XXX	±0.1	Sheet	1/1	

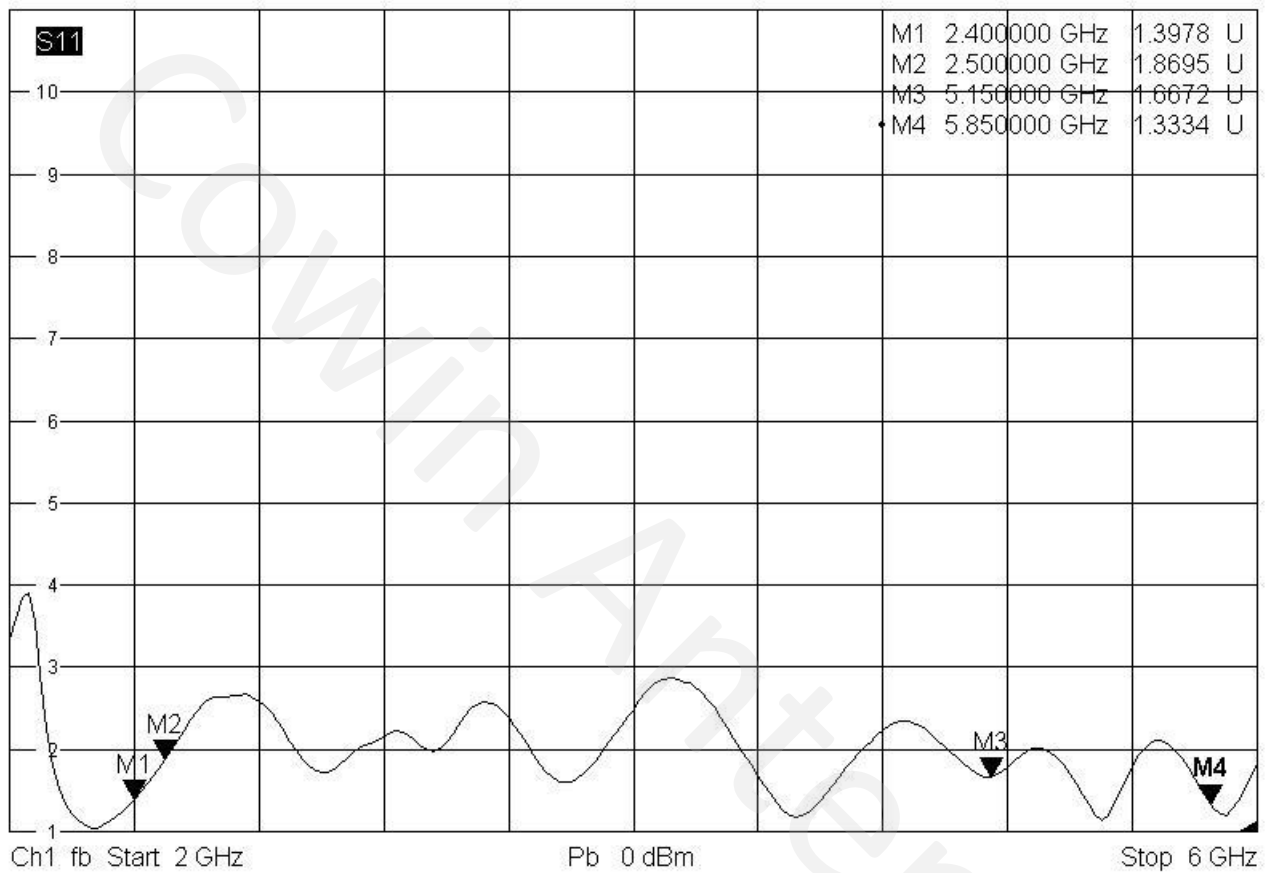
Cowin Antenna

V.S.W.R



Trc1 — S11 SWR 1 U / Ref 1 U Cal

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5/29/2026, 2:53 PM

Efficiency

Frequency (MHz)	Efficiency (%)
2400	72.95
2450	82.99
2500	65.16
5150	97.27
5300	73.79
5650	96.83
5660	96.61
5745	94.41
5850	88.1

Peak Gain

Frequency (MHz)	Max Gain (dBi)
2400	1.68
2450	1.27
2500	1.56
5150	3.98
5300	3.23
5650	3.32
5660	3.45
5745	3.42
5850	3.47

2D Radiation Patterns

