
Single Dipole FM Broadcasting Antenna

FYY-A10F/V

Product Manual

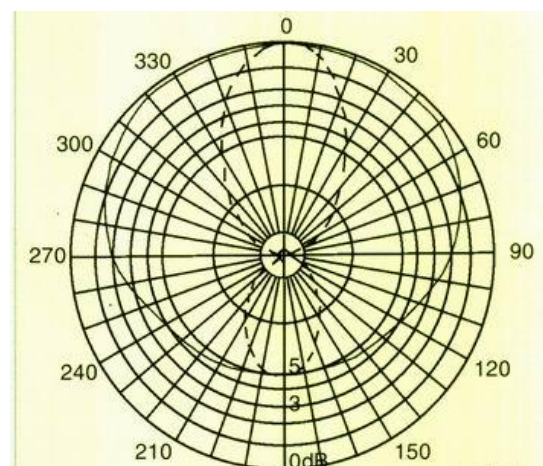
1. Overview

1. 1. Product Function

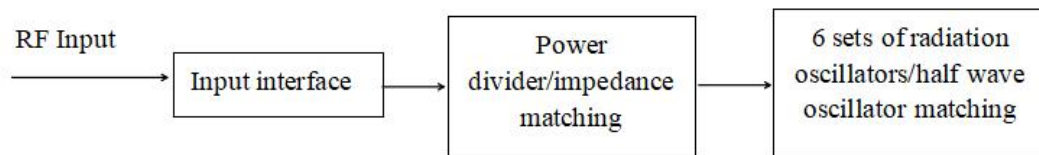
The single dipole frequency modulation broadcasting transmitting antenna (FYY-A1OV) is a product that radiates electromagnetic signals in the VHF (frequency range: 167-223MHz) band into space. The antenna adopts a half wave oscillator design, and the external balun device can effectively counteract the reverse current. By adjusting the length of the balun line and radiation oscillator, the product can achieve resonance at any frequency in the VHF band.

1. 2. Product Characteristic

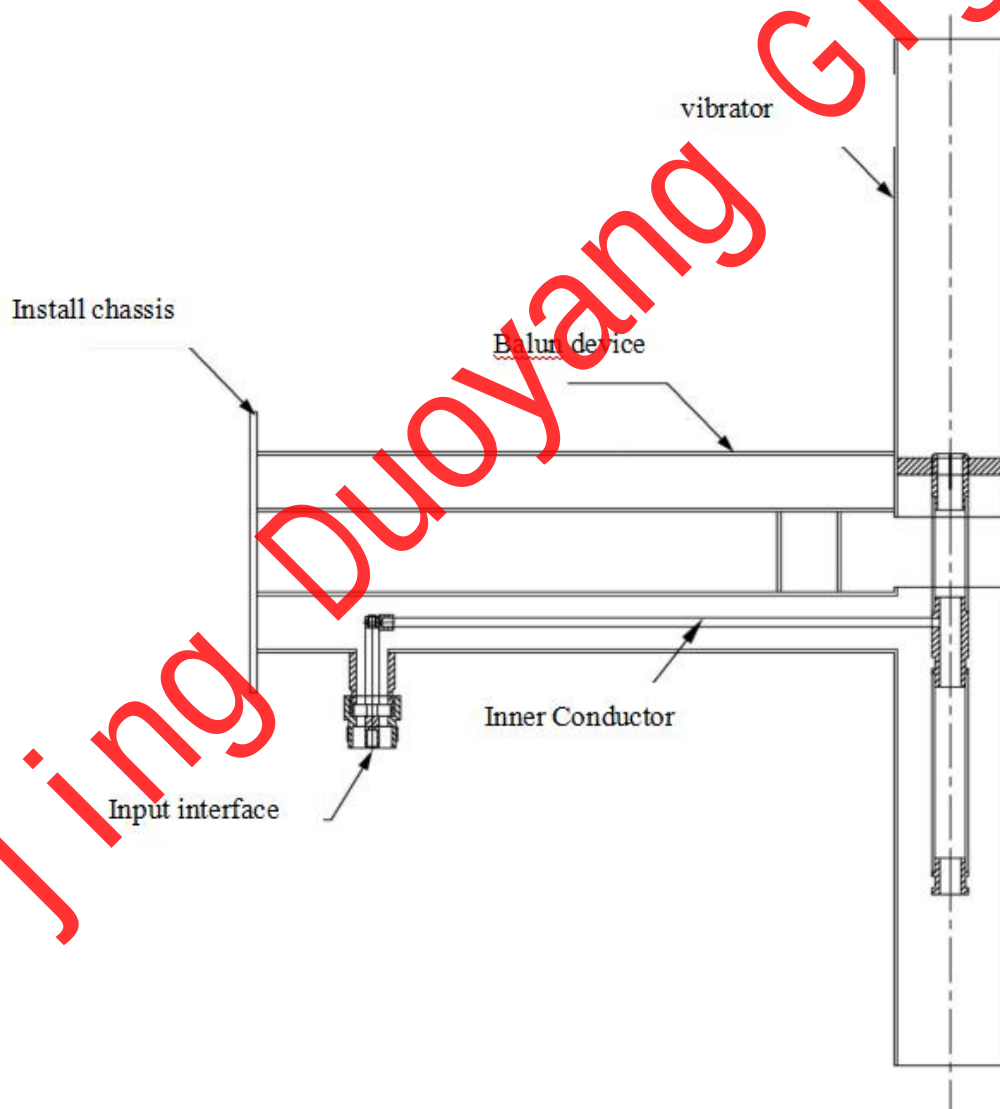
- Full white steel structure.
- Pure copper silver plated inner conductor.
- Low loss and high gain.
- Can form an array according to power and coverage requirements.



1.3. Product principle diagram



1.4. Product Structure



1.5. Technical Parameters of Antenna Unit

No.	Content	Parameter
1	MODEL	FYY-A10F/V
2	Frequency	87—108MHz
3	Power	Max 2.5Kw
4	Input connector	L27、L29、L36、IF70
5	Weight	8kg
6	Bandwidth	8MHz
7	Impedance	50 Ω
8	Material	Stainless steel
9	Gain	3.5dBd
10	Wind load	0.4m ²
11	Lightning protection	DC Ground
12	Color	Silvery white
13	VSWR	≤ 1.15
14	Mounting	With brackets for pole

1.6. 2-layer Antenna Technical Parameters

No.	Content	Parameter
1	MODEL	FYY-A10F/V-2
2	Frequency	87—108MHz
3	Power	Max 5KW
4	Input connector)	L27、L29、L36、L52-50K 、IF70、IF110
5	Weight)	20kg
6	Bandwidth	21MHz

7	Impedance	50 Ω
8	Material	Stainless steel
9	Gain	6.5dBd
10	Wind load	0.9m ²
11	Beam tilt	0.5° ~0.8°
12	Lightning protection	DC Ground
13	Null fill	Max 13%
14	Color	Silvery white
15	VSWR	≤1.15
16	Mounting	With brackets for pole

1.7. 4-Layer Antenna Technical Parameters

No.	Content	Parameter
1	MODEL	GFYY-A10F/V-4
2	Frequency	87—108MHz
3	Power	Max 12KW
4	Input connector	L27、L29、L36、L52-50K 、IF70、IF110
5	Weight	40kg
6	Bandwidth	21MHz
7	Impedance	50 Ω
8	Material	Stainless steel
9	Gain	9.5dBd
10	Wind load	1.8m ²
11	Beam tilt	0.5° ~0.8°
12	Lightning protection	DC Ground
13	Null fill	Max 13%

14	Color	Silvery white
15	VSWR	≤ 1.15
16	Mounting	With brackets for pole

1.8. 6-Layer Antenna Technical Parameters

No.	Content	Parameter
1	MODEL	FYY-A10F/V-6
2	Frequency	87—108MHz
3	Power	Max 20KW
4	Input connector	L27、L29、L36、L52-50K 、IF70、IF110
5	Weight	60kg
6	Bandwidth	121MHz
7	Impedance	50 Ω
8	Material	Stainless steel
9	Gain	11.3dBd
10	Wind load	1.8m ²
11	Beam tilt	0.5° ~0.8°
12	Lightning protection	DC Ground
13	Null fill	Max 13%
14	Color	Silvery white
15	VSWR	≤ 1.15
16	Mounting	With brackets for pole

1.9. Installation Diagram

