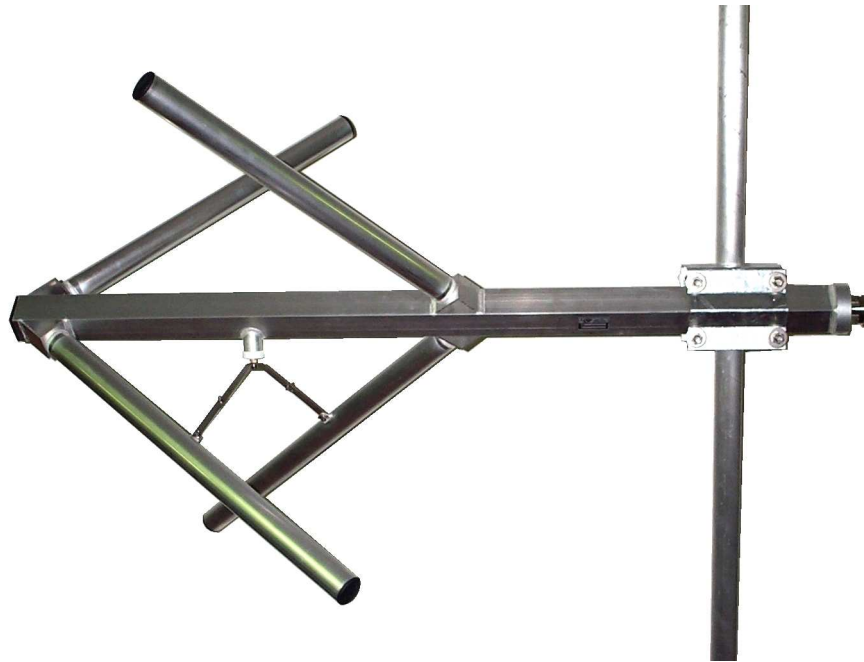


AKG/77

H.P. Circular Polarization FM Antenna



MOUNTING INSTRUCTIONS

These wide band FM antennas, made of aluminum Alodyne 120 are particularly recommended for High output power Transmitters.

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BAYS	DB GAIN	ANTENNA Vert. dimensions	WEIGHT Kg	WIND VEL. Km/h	WIND LOAD Kg.
1	-1.5	1,8 mt	11.0	160	28
2	1.5	4,3 mt	22.0		
4	4.5	9,3 mt	44.0		
6	6.0	14,3 mt	66.0		
8	7.5	19,3 mt	88.0		

SUGGESTED MAST SECTION

Is suggested install this Dipole Antenna over poles or guyed mast because the section higher than 110mm can increase the SWR value and modify the radiation pattern.

DISTANCE ESTIMATION BETWEEN FM ANTENNA BAYS

Wave Length = $\lambda = 300 : f(\text{MHz})$

Distance between antenna bays (any antenna types) = **d**

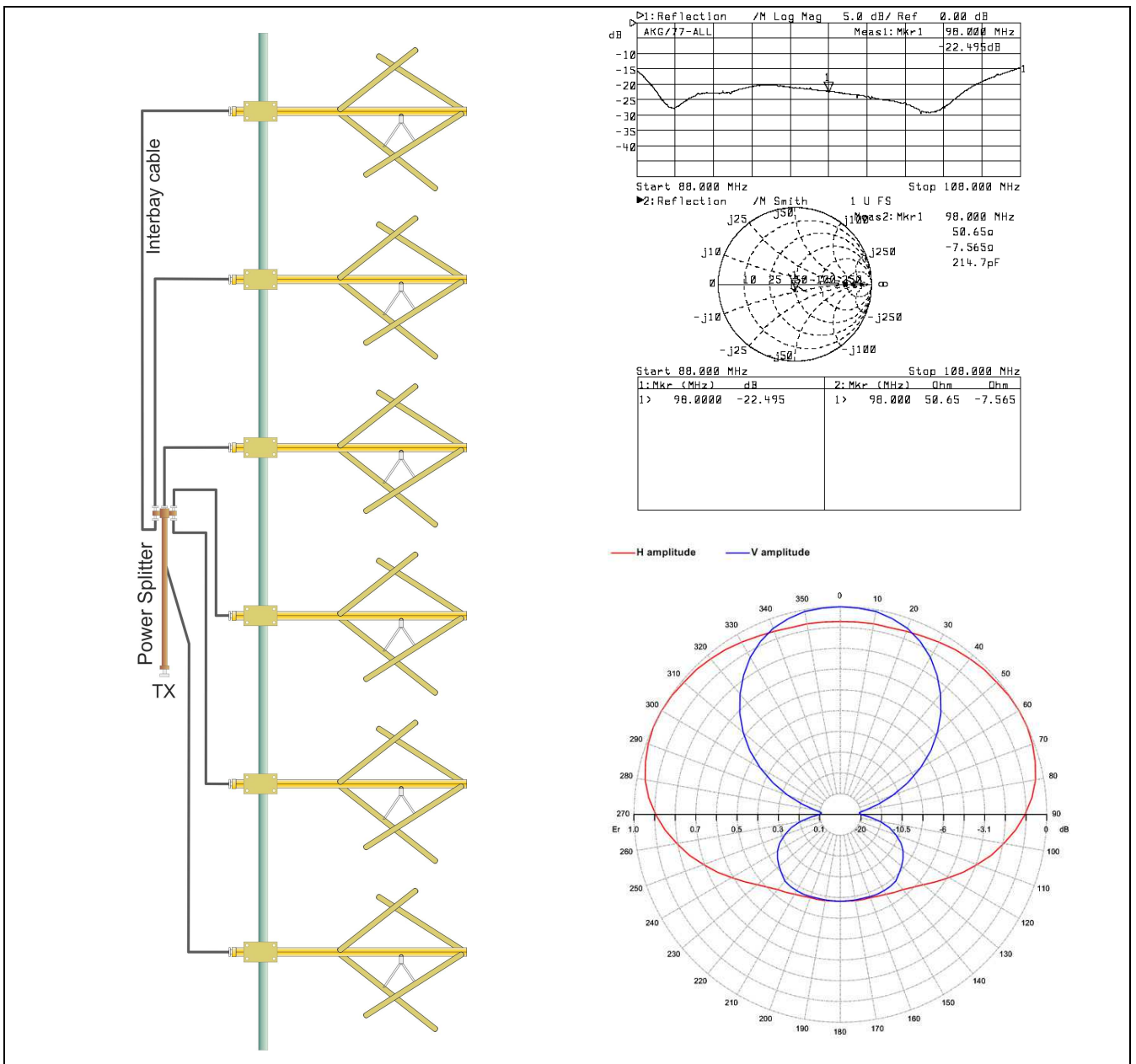
d (suggested) = $\lambda \times 0.85$

88MHz $\Rightarrow \lambda = 300 : 88 = 3.41 \text{ mt} \Rightarrow d = 3.41 \times 0.85 = 2.9 \text{ mt}$

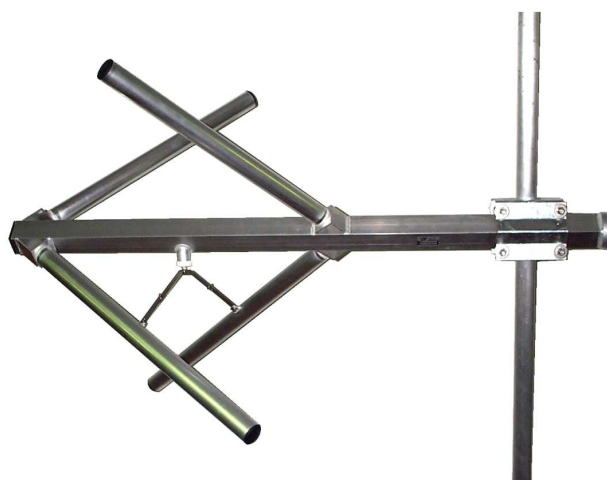
98MHz $\Rightarrow \lambda = 300 : 98 = 3.06 \text{ mt} \Rightarrow d = 3.06 \times 0.85 = 2.6 \text{ mt}$

108MHz $\Rightarrow \lambda = 300 : 108 = 2.78 \text{ mt} \Rightarrow d = 2.78 \times 0.85 = 2.36 \text{ mt}$

Distance **d** suggested 2.6mt, even if working frequency is Mid FM Band

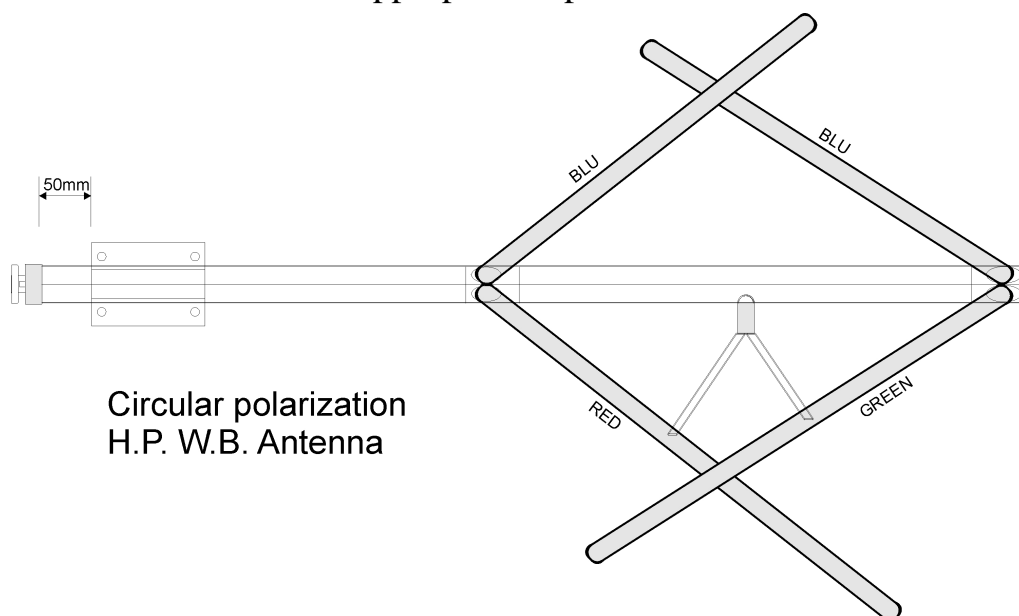


MOUNTING INSTRUCTIONS



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- The antenna must be assembled with the central insulator down.
- The elements without the hole must be mounted looking to the high while the elements with the hole must be mounting looking down.
- The elements with the hole have different length and for this reason have been marked with different colors , pay attention to follow the BLU – RED - GREEN.
- After inserting the elements lock nuts lightly.
- Insert the central link and lock it to the inner brass conductor coming out from the central insulator.
- Lock strongly all the nuts.
- Lock the antenna to the mast at the distance indicated from the lines.
- Protect the connector with appropriate tape.



Please, apply spray Oil on all the contact surfaces and the screw holes.