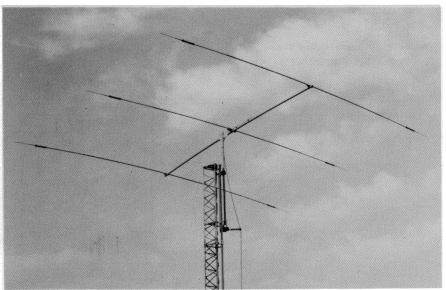


Duo-Band Yagi Beam Antenna 216 16-22 MHz 116 16-22 MHz

- ★ High Gain Tower

 And Simple Yagi Type
- ★ Minimum Installation Site, and Economical
- ★ Ideal for Base Stations, Coastal Communications



PURPOSE AND FEATURES

Model 116

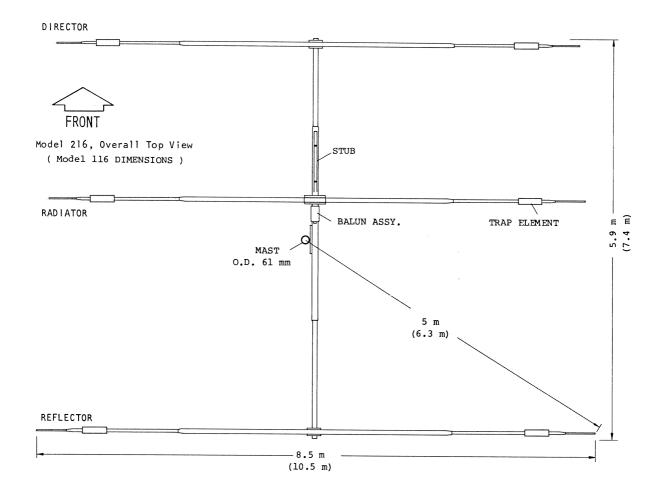
The model 116 and 216 are Yagi beam antennas specifically designed for a long range coastal communications. If intended communication range is approximately from 4000 to 15000 km, these antennas are ideal ones as they can derive more than 7 to 10dB gain in comparison with a dipole antenna. In addition to that, an use of these antennas arequite effective to reduce noise and interference due to high selectivity. These antennas are useful for making a simulation of the communication circuit, if you have a plan in the future to replace your existing antenna system with a wide band L.P.antenna or other high gain antenna. The effectiveness of the model 116 and 216 can be proved by the fact that millions of radio amateur operating on 14, 21 and 28MHz which are respectively closed to those commercial bands, obtained a good result using 3 element Yagi antenna. The electrical operation of these models 116,216 are 3 elements, Yagi type an tenna having high forward gain, and is very economical one compared with those LP type of antennas except wide band characteristic. The model 116 and 216 assure complete 2 band operation by high-Q traps provided in each element. The power handling capability is 1kW but 5kW operation is available upon request. The feed section is provided with a 1:1 high-power balun as well as a unique matching hairpin stub in order to ensure optimum transmission of high frequency energy at a low standing wave ratio. Thus, mechanically, they are rugged and exceptional antennas in design and fabrication. High-tension aluminum alloys are used to withstand against hostile environment such heavy winds, rains and salty spray. Aluminum die-casting clamps and galvanized mast hardwares also ensure high reliability and long life. And CD provide an antenna rotator and a supporting tower for these antennas.

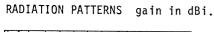
SPECIFICATIONS

Model No.
Frequency
Polarization
Forward Gain
F/BRatio (Average)
Azimuth Beam Width (Ave)
Power Handling Capability (Ave/PEP)
Impedance
VSWR
Boom Length
Maximum Element Length
Turning Radius
Weight
Wind Survival Rating, 60 m/s (45 m/s)
Adaptable Mast Diameter
Recommended Rotator
Recommended Height
Recommended Tower, for 60 m/s (45 m/s

116
12,16 MHz
Horizontal
10 - 12 dBi
18dB
70 degree
1/2 kW
50 or 75 ohms
Less than 1.7:1
7.4 m
10 m
6 m
28 kg
250 kg-f (140 kgf)
Dia.61 mm
RC5B-x
more than 15 m
KTI8S (KTI8R)
, , , , , , , , , , , , , , , , , , , ,

216
16,22 MHz
Horizontal
10 - 2 dBi
18 dB
70 degree
1/2 kW
50 or 75 ohms
Less than 1.7
5.9 m
8.5 m
5 m
22kg
190 kg-f (110 kgf)
Dia.61 mm
RC5B-x
more than 15 m
KTI5R (KT7N)





Feeding Section

