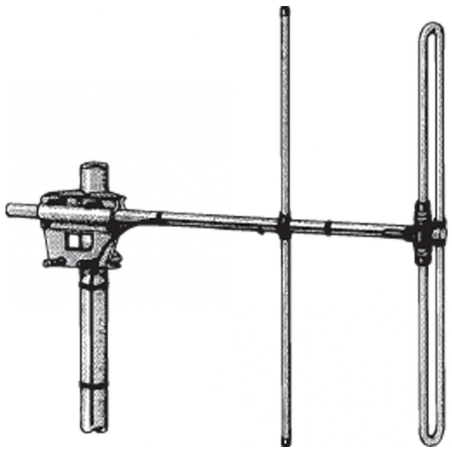
R 2-3/..., R 2-6/...

Directional Antennas with 3 and 6 dBd Gain for the 160 MHz Band

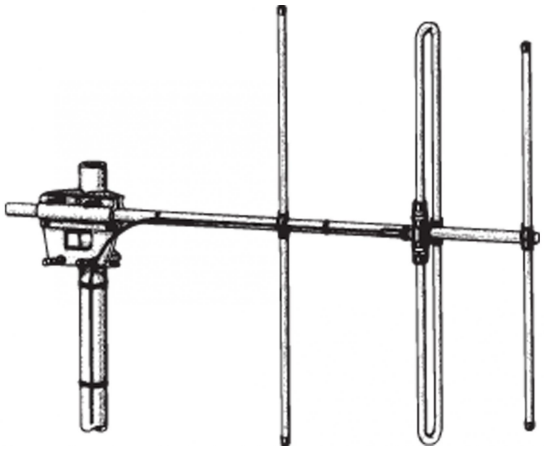
DESCRIPTION

- These antennas are 2- and 3-element Yagi antennas with 3 and 6 dBd gain, respectively.
- When mounted for vertical polarization, the horizontal coverage is R 2-3: 150° and R 2-6: 120°. R 2-3/... and R 2-6/... cover the 160 MHz band in two models.
- These Yagis incorporate baluns optimized for wide bandwidth and accurate matching.
- The entire balun unit and feeder cable inlet are completely sealed in a polythene moulding ensuring permanent waterproof connections. The antennas are supplied with a 3 m "tail" of RG 213 terminated with an N-female connector.
- Radiating elements, supporting booms and adjoining metal castings have been constructed in high-quality aluminium alloys to prevent corrosion. All metal parts are DC-grounded.
- The antennas are designed for back mounting and are provided with rear extended booms.
- These antennas can be stacked and fed in phase with a matching harness for increased gain.
- A mast clamp for fixation on 30 - 58 mm diameter mast tube is supplied.

R 2-3/...



R 2-6/...



ORDERING DESIGNATIONS

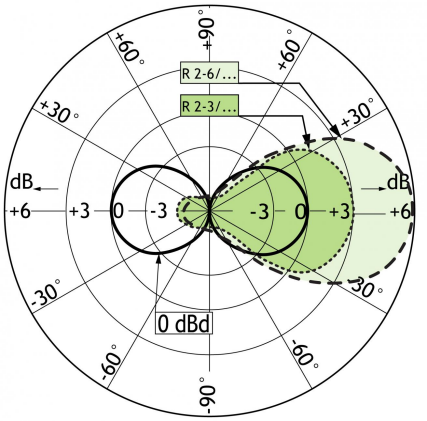
TYPE	PRODUCT NO.	FREQUENCY
2-element Yagi 3 dBd		
R 2-3/l	120000028	144 - 162 MHz
R 2-3/h	120000027	156 - 175 MHz
3-element Yagi 6 dBd		
R 2-6/l	120000031	144 - 162 MHz
R 2-6/h	120000030	156 - 175 MHz

SPECIFICATIONS

ELECTRICAL		
MODEL	R 2-3/...	R 2-6/...
ANTENNA TYPE	2-element Yagi	3-element Yagi
FREQUENCY	"l": 144 - 162 MHz "h": 156 - 175 MHz	"l": 144 - 162 MHz "h": 156 - 175 MHz
IMPEDANCE	Nom. 50 Ω	
POLARIZATION	Vertical or horizontal	
GAIN	5 dBi 3 dBd	8 dBi 6 dBd
FRONT TO BACK RATIO	12 dBd	16 dBd
HALF-POWER BEAMWIDTH	E-plane: 75° H-plane: 150°	E-plane: 70° H-plane: 120°
BANDWIDTH	19 MHz	
SWR	≤ 1.5	
MAX. POWER	150 W	
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)	

MECHANICAL		
TEMP. RANGE	-25°C → +60°C	
CONNECTION	3 m tail of RG 213 terminated with N-female connector	
WIND SURFACE	0.0828 m²	0.0936 m²
WIND LOAD	105 N @ 160 km/h	118 N @ 160 km/h
COLOUR	"Aluminium"	
MATERIALS	Elements/Boom/Saddle clamps: Aluminium alloys. Fittings: Stainless steel	
BOOM LENGTH	Approx. 0.93 m	Approx. 1.2 m
BOOM DIA.	31.8 mm	
MAX. ELEMENT LENGTH	Approx. 1.1 m	
DIA. OF ELEMENTS	19 mm	
WEIGHT	Approx. 3.5 kg	Approx. 4.1 kg
MOUNTING	Supplied with mast bracket suiting 30 - 58 mm dia. mast tube	

TYPICAL RADIATION PATTERN (E-PLANE)



If the antennas are mounted for vertical polarization, these curves show the radiation patterns in the vertical plane.

TYPICAL RADIATION PATTERN (H-PLANE)

If the antennas are mounted for vertical polarization, these curves show the radiation patterns in the horizontal plane (horizontal coverage).

PROCOM A/S reserve the right to amend specifications without prior notice.

04/09/12