

R 2-8/..., R 2-10/...

Directional Antennas with 8 and 10 dBd Gain for the 160 MHz Band

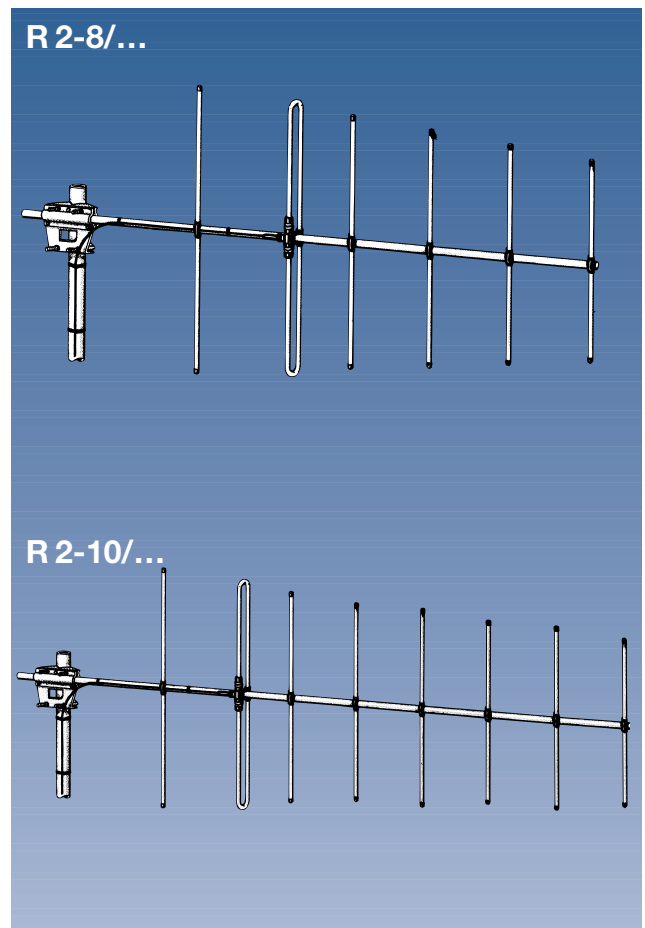


DESCRIPTION:

- ★ These antennas are 6- and 8-element Yagi antennas with 8 and 10 dBd gain, respectively.
- ★ When mounted for vertical polarisation the horizontal coverage is R 2-8: 64° and R 2-10: 50°.
- ★ R 2-8/... and R 2-10/... 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 enclosed.

SPECIFICATIONS:

MODEL	R 2-8/...	R 2-10/...
ELECTRICAL		
ANTENNA TYPE	6-element Yagi	8-element Yagi
FREQUENCY	l: 140-155 MHz h: 155-175 MHz	l: 145-165 MHz h: 156-175 MHz
IMPEDANCE	50 Ω	
POLARISATION	Vertical or horizontal	
GAIN	10 dBi 8 dBd	12 dBi 10 dBd
FRONT TO BACK RATIO	16 dB	20 dB
HALF-POWER BEAMWIDTH	E-plane: 50° H-plane: 64°	E-plane: 40° H-plane: 50°
BAND WIDTH	20 MHz	
SWR	≤ 1.5	
MAX. POWER	150 watts	
ANTISTATIC PROTECTION	All metal parts DC-grounded (Connector shows a DC-short)	
MECHANICAL		
CONNECTION	3m tail of RG 213 terminated with type "N" female connector	
WIND SURFACE	0.139 m ²	0.15 m ²
WIND LOAD	176 N @ 160 km/h	190 N @ 160 km/h
COLOUR	"Aluminium"	
MATERIALS	Elements/Boom/Saddle clamps: Aluminium alloys. Fittings: Stainless steel	
BOOM LENGTH	Approx. 2.7 m	Approx. 3.4 m
BOOM DIA.	31.8 mm	
MAX. ELEMENT LENGTH	1.06 m	
DIA. OF ELEMENTS	19 mm	
WEIGHT	Approx. 4.8 kg	Approx. 5.2 kg
MOUNTING	Supplied with mast bracket suiting 30-58 mm dia. mast tube	



ORDERING DESIGNATIONS

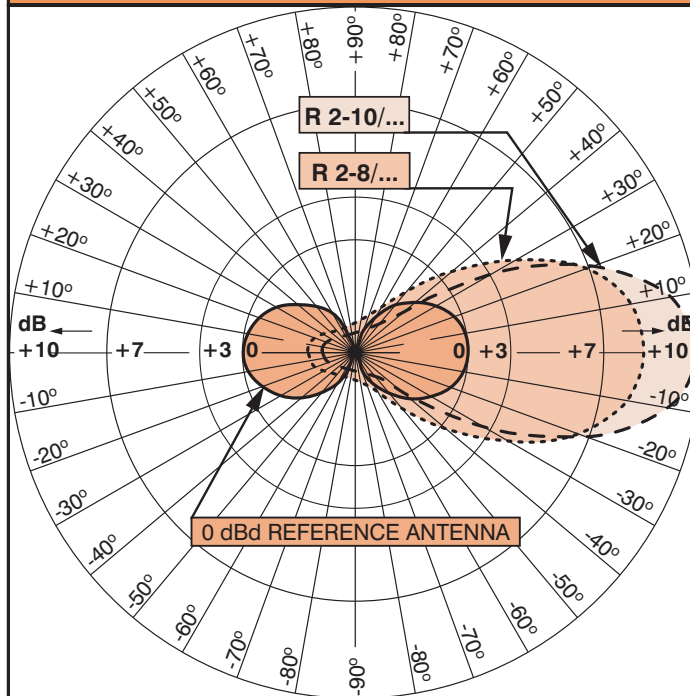
FREQ.	TYPE	6-element Yagi 8 dBd	8-element Yagi 10 dBd
140-155 MHz		R 2-8/l	-
145-165 MHz		-	R 2-10/l
155-175 MHz		R 2-8/h	R 2-10/h

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

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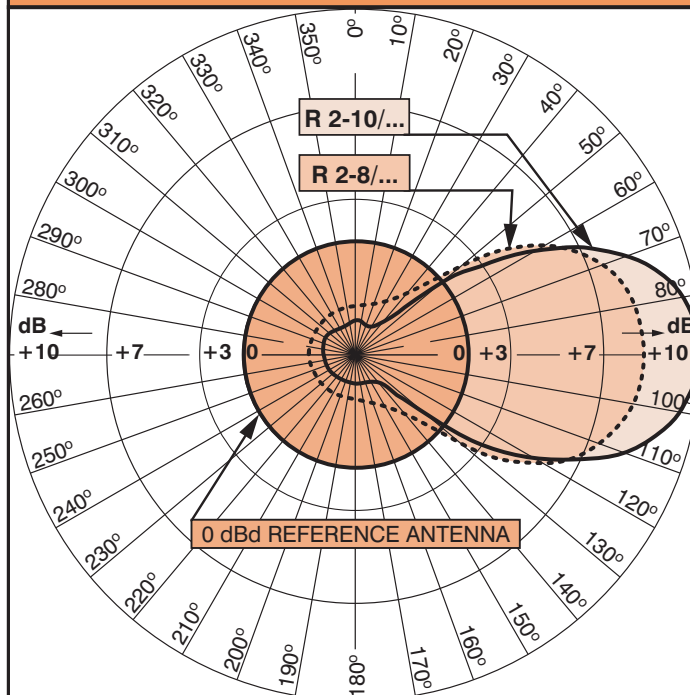


TYPICAL RADIATION PATTERN (E-PLANE)



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

TYPICAL RADIATION PATTERN (H-PLANE)



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