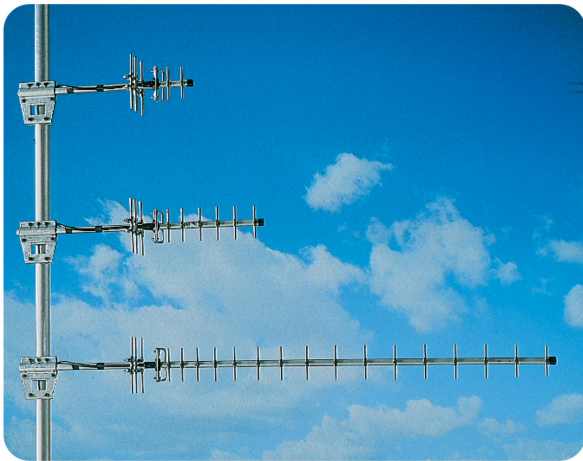


R 900-7/..., R 900-10/..., R 900-14/...

Directional Antennas with 7, 10 and 14 dBd Gain for the 900 MHz Band

DESCRIPTION

- These antennas are 4-, 8- and 18-element Yagi antennas with 7, 10, and 14 dBd gain, respectively.
- When mounted for vertical polarisation the horizontal coverage is R 900-7: 74°, R 900-10: 52° and R 900-14: 32°.
- 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 0.8 or 3 m "tail" of RG 213 terminated with an N-female connector. (See specifications).
- 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.



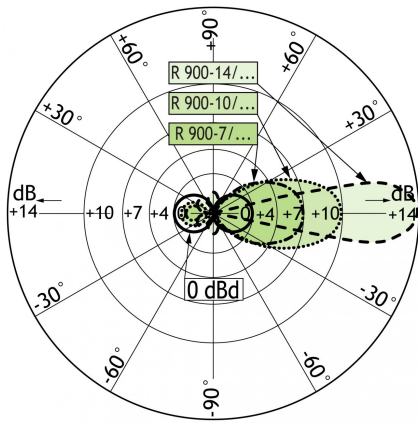
ORDERING DESIGNATIONS

FREQUENCY	820 - 900 MHZ	
TYPE	PRODUCT NO.	
R 900-7/l	120000058	4-element Yagi 7 dBd
R 900-10/l	120000060	8-element Yagi 10 dBd
R 900-14/l	120000062	18-element Yagi 14 dBd
FREQUENCY	870 - 960 MHZ	
TYPE	PRODUCT NO.	
R 900-7/h	120000059	4-element Yagi 7 dBd
R 900-10/h	120000061	8-element Yagi 10 dBd
R 900-14/h	120000063	18-element Yagi 14 dBd

SPECIFICATIONS

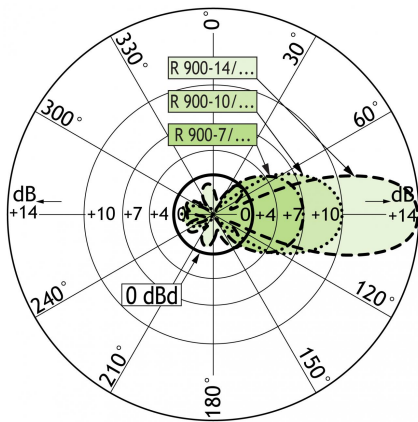
MODEL	R 900-7/...	R 900-10/...	R 900-14/...
ELECTRICAL			
ANTENNA TYPE	4-element Yagi	8-element Yagi	18-element Yagi
FREQUENCY	l: 820 - 900 MHz h: 870 - 960 MHz		
IMPEDANCE	50 Ω		
POLARIZATION	Vertical or horizontal		
GAIN	9 dBi 7 dBd	12 dBi 10 dBd	16 dBi 14 dBd
FRONT TO BACK RATIO	16 dB	20 dB	25 dB
HALF POWER BEAMWIDTH	E-plane: 56° H-plane: 74°	E-plane: 42° H-plane: 52°	E-plane: 23° H-plane: 32°
BANDWIDTH	80-90 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	0.8 m tail of RG 213 terminated with type "N" female connector	0.8 m tail of RG 213 terminated with type "N" female connector	3 m tail of RG 213 terminated with type "N" female connector
WIND SURFACE	0.034 m ²	0.047 m ²	0.091 m ²
WIND LOAD	43 N @ 160 km/h	59 N @ 160 km/h	119 N @ 160 km/h
COLOUR	"Aluminium"		
MATERIALS	Elements/Boom/Saddle clamps: Aluminium alloys. Fittings: Stainless steel. Bracket: Hot-dipped galvanized steel		
BOOM LENGTH	Approx. 0.69 m	Approx. 0.97 m	Approx. 2.04 m
BOOM DIA.	25.4 mm		
MAX. ELEMENT LENGTH	0.21 m		
DIA. OF ELEMENTS	9.5 mm		
WEIGHT	Approx. 2.1 kg	Approx. 2.8 kg	Approx. 4.2 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).



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24/02/14