

# BY3-XG

## FM 100 MHz Yagi Antenna Series

BY3-XG is a family of FM100 MHz Yagi Antennas

- Low Loss and Wideband Gamma match.
- Radiating elements, supporting booms and adjoining metal castings are constructed in high quality aluminum to prevent corrosion.

### ELECTRICAL SPECIFICATIONS

Antenna Type	BY3-3G: 2-element Yagi Antenna BY3-5G: 3-element Yagi Antenna BY3-7G: 4-element Yagi Antenna BY3-9G: 6-element Yagi Antenna
Frequency	88 - 108 MHz
Bandwidth	20 MHz
Impedance	50 Ohm
VSWR	<1.5:1
Polarisation	Linear (Vertical or Horizontal)
Gain	BY3-5G: 3 dBd, 5.15 dBi BY3-5G: 5 dBd, 7.15 dBi BY3-7G: 7 dBd, 9.15 dBi BY3-9G: 9 dBd, 11.15 dBi
Half-Power Beamwidth	BY3-3G: E-Plane: 73°, H-Plane 148° BY3-5G: E-Plane: 68°, H-Plane 118° BY3-7G: E-Plane: 58°, H-Plane 88° BY3-9G: E-Plane: 54°, H-Plane 62°
Front-To-Back Ratio	> 12 dB
Max. Input Power	150 Watt



Datasheet

MECHANICAL SPECIFICATIONS

Color	Silvery white
Dimensions	BY3-3G: 1500 x 1600 mm BY3-5G: 1760 x 1600 mm BY3-7G: 2200 x 1600 mm BY3-9G: 3000 x 1600 mm
Weight	BY3-3G: 2.5 kg BY3-5G: 3.0 kg BY3-7G: 3.5 kg BY3-9G: 4.0 kg
Mount Type	Fixed Tube Bracket in Galvanized Iron (included)
Mounting Place	On tube (Ø 20 - 65 mm, vertical or horisontal)
Survival Wind Speed	55 m/s
Materials	Aluminum 6063-T5, PP and Brass
Connector	Type N-female
Pigtail	Approx. 2.5 m RG213/U
Serial Number	On product label

ORDERING INFORMATION

BY3-5G	5 dBd, 7.15 dBi In Box
BY3-7G	7 dBd, 9.15 dBi In Box
BY3-9G	9 dBd, 11.15 dBi In Box