## Scan-Antenna®

## Datasheet

# **BY1-XG**

### DAB 200 MHz Yagi Antenna Series

BY3-XG is a family of DAB 200 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            | BYI-6C: 3-element Yagi Antenna<br>BYI-7C: 4-element Yagi Antenna<br>BYI-9C: 6-element Yagi Antenna                |
|-------------------------|---|
| Frequency               | 220 - 240 MHz   |
| Bandwidth               | 20 MHz  |
| Impedance               | 50 Ohm  |
| VSWR                    | <1.5:1  |
| Polarisation            | Linear (Vertical or Horizontal)   |
| Gain                    | BY1-6C: 6 dBd, 8.15 dBi<br>BY1-7C: 7 dBd, 9.15 dBi<br>BY1-9C: 9 dBd, 11.15 dBi                                    |
| Half-Power<br>Beamwidth | BY1-6C: E-plane: 60° , H-Plane: 80°<br>BY1-7C: E-plane: 58° , H-Plane: 90°<br>BY1-9C: E-plane: 50° , H-Plane: 60° |
| Front-To-Back Ratio     | BY1-6C/9G> 18 dB<br>BY1-7G > 13 dB  |
| Max. Input Power        | 150 Watt  |





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### MECHANICAL SPECIFICATIONS

| Color               | Silvery white  |
|---------------------|--|
| Dimensions          | BY1-6C: 830 x 620 mm<br>BY1-7C: 1200 x 670 mm<br>BY1-9C: 2000 x 670 mm |
| Weight              | BY1-6C: 3.0 kg<br>BY1-7C: 4.0 kg<br>BY1-9C: 5.0 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. 0.5 m RG213/U  |
| Serial Number       | On product label   |

### **ORDERING INFORMATION**

| BY1-6G | 6 dBd, 8.15 dBi<br>In Box  |
|--------|----------------------------|
| BY1-7G | 7 dBd, 9.15 dBi<br>In Box  |
| BY1-9G | 9 dBd, 11.15 dBi<br>In Box |

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