

## YVL77000 VHF & DAB 7 Elements Log Periodic

VHF  
Band III TV  
DAB / DAB+

Operative Frequency  
174 - 240 MHz

Input: 7/8" EIA

### MAIN FEATURES

Product code: YVL7000

#### Electrical characteristics

|                                      |                     |
|--------------------------------------|---------------------|
| Frequency Range                      | 174 - 240 MHz       |
| Input impedance                      | 50 OHM              |
| Polarization (depends on mounting)   | Vertical/Horizontal |
| Gain                                 | 6 dBd (@ 200 MHz)   |
| VSWR                                 | <1.2                |
| Max input Power                      | 3 kW                |
| all metal parts are ground connected |                     |

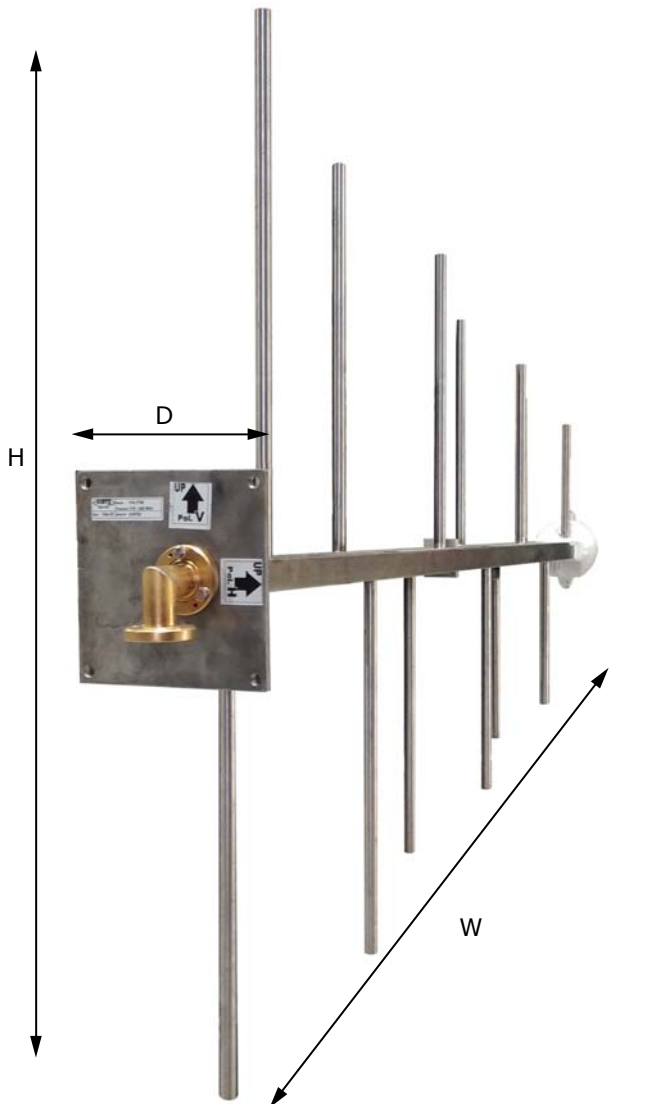
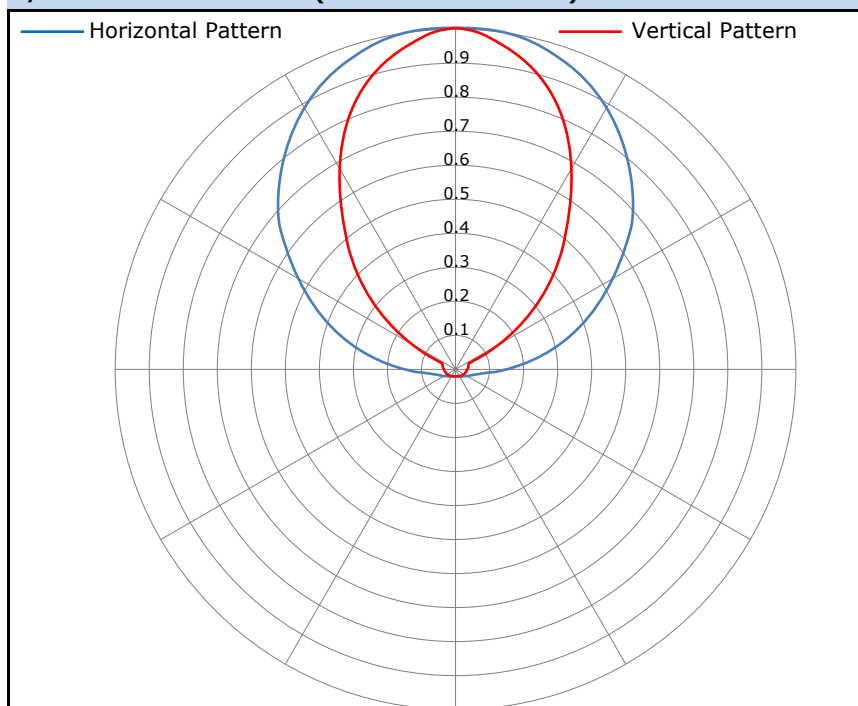
#### Mechanical characteristics

|                           |                                             |
|---------------------------|---------------------------------------------|
| Input Connector           | EIA 7/8"                                    |
| Weight/Mass               | 137 N (14 Kg   31 lbs)                      |
| Wind loads (wind=160 Kph) | 130 N (Front thrust)<br>400 N (Side thrust) |
| Max Wind (survival)       | 200 Kph                                     |
| Operating temperature     | -50°C to +70°C                              |
| Pressurization            | 100 KPa (1 Atm)                             |
| Mounting:                 | Pole Brackets Ø 50-114 pole                 |

#### Materials

|                         |                         |
|-------------------------|-------------------------|
| External parts/Brackets | Stainless Steel         |
| Internal Lines/ Dipoles | Silver Plated Alu/Brass |
| Hardware                | Stainless Steel         |

#### E/EM Radiation Patterns (Vertical Polarization)



H: 785 mm [30.9"] W:1327 mm [52.2"] D: 180 mm [7.1"]

# YVV75002 VHF & DAB 5 Elements Yagi- Typical Antenna Systems Patterns

Vertical Pol.

## Arrays Data Table

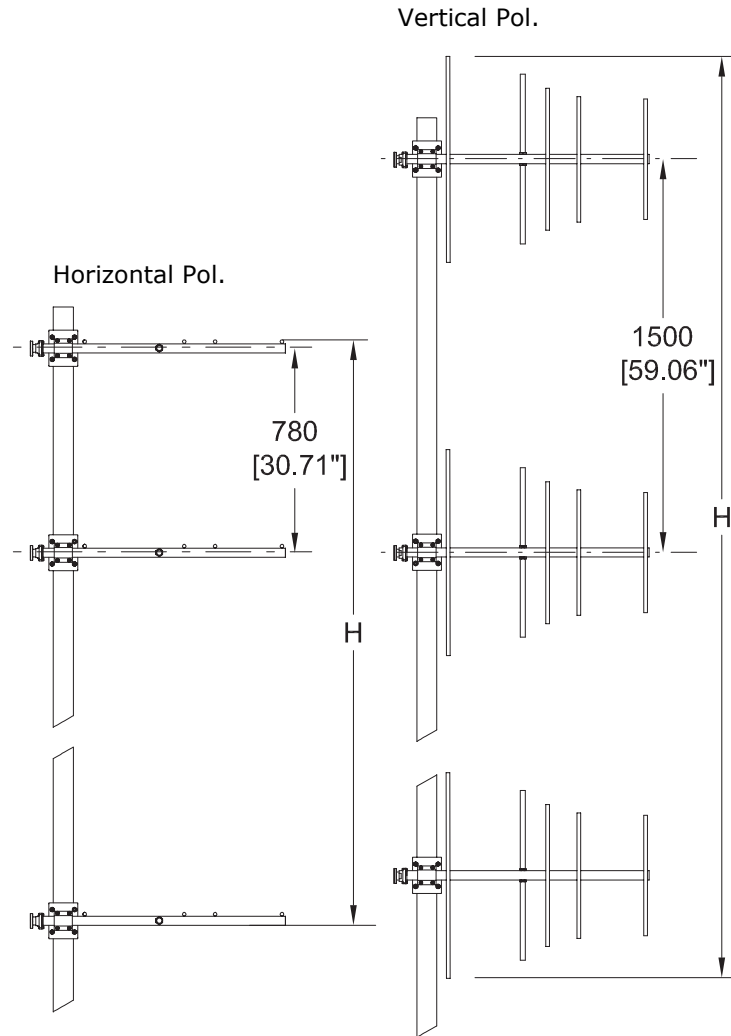
Horizontal Pol.

| Bays (Nr) | Gain (dBd) | Height (m/ft) | Weight (kg/lbs)* |
|-----------|------------|---------------|------------------|
| 1         | 6          | 0.05 (0.2)    | 5.7 (12.6)       |
| 2         | 9          | 0.83 (2.7)    | 11.4 (25.1)      |
| 3         | 10.8       | 1.61 (5.3)    | 17.1 (37.7)      |
| 4         | 12         | 2.39 (7.8)    | 22.8 (50.3)      |
| 6         | 13.8       | 3.95 (13)     | 34.2 (75.4)      |
| 8         | 15         | 5.51 (18.1)   | 45.6 (100.5)     |
| 12        | 16.8       | 8.63 (28.3)   | 68.4 (150.8)     |

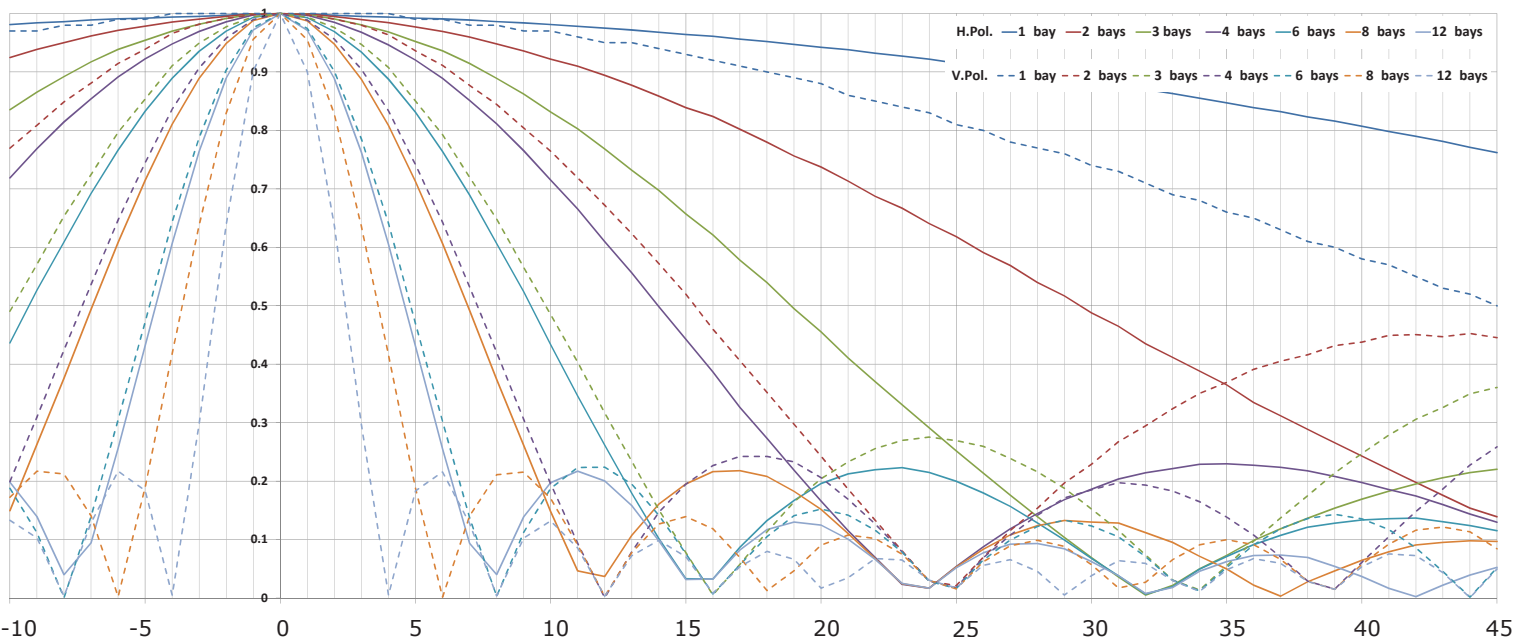
Vertical Pol.

| Bays (Nr) | Gain (dBd) | Height (m/ft) | Weight (kg/lbs)* |
|-----------|------------|---------------|------------------|
| 1         | 6          | 0.785 (2.6)   | 5.1 (11.2)       |
| 2         | 9          | 2.285 (7.5)   | 10.2 (22.5)      |
| 3         | 10.8       | 3.785 (12.4)  | 15.3 (33.7)      |
| 4         | 12         | 5.285 (17.3)  | 20.4 (45)        |
| 6         | 13.8       | 8.285 (27.2)  | 30.6 (67.5)      |
| 8         | 15         | 11.285 (37)   | 40.8 (89.9)      |
| 12        | 16.8       | 17.285 (56.7) | 61.2 (134.9)     |

\*Supporting Pole, Cables, Power Dividers NOT considered



## E/EM Vertical Radiation Patterns


I dati contenuti nel presente datasheet possono variare senza preavviso  
Data on this datasheet can vary without previous notice

09/21