



# ONWA

## Model : KA-07

### Physical :

- ◆ Enclosure : High compact, corrosion-proof PC (polycarbonate) resin
- ◆ Construction : Hermetically sealed, fully waterproof
- ◆ Dimensions : 90mm(D) X 110mm(H)
- ◆ Weight : 65g (w/o cable & connector)
- ◆ Mounting : Pole mount to 1"-14 threaded pipe

### Cable & Connector :

- ◆ RF cable : 10m RG-59
- ◆ Connector : BNC connector supplied as standard

### Environmental :

- ◆ Operating temperature : -30°C ~ +85°C
- ◆ Storage temperature : -40°C ~ +90°C
- ◆ Relative humidity : 95% non-condensing
- ◆ Waterproof : 100% waterproof

### Electrical :

#### A. Antenna Element

- ◆ Center Frequency : 1575.42 Mhz  $\pm$  1.023Mhz
- ◆ Absolute gain zenith : +5dB typical
- ◆ Absolute gain 10° : -1dB typical
- ◆ Axial ratio : 3dB max
- ◆ Output VSWR : 1.5 max
- ◆ Output impedance : 50 ohm

#### B. Low Noise Amplifier

- ◆ Center Frequency : 1575.42 Mhz
- ◆ Power gain : 27dB typical
- ◆ Band width : 2Mhz min.
- ◆ Noise figure : 1.5 max
- ◆ Out band attenuation : 20dB min @Fo  $\pm$ 50Mhz
- ◆ Supply voltage : 3.3 ~ 5.0 VDC
- ◆ Current consumption : Maximum 12mA
- ◆ VSWR : 2.0 max
- ◆ Output impedance : 50 ohm

#### C. Overall Performance (Antenna Element, LNA and Cable)

- ◆ Center frequency : 1575.42 Mhz
- ◆ Gain : 26 dB min
- ◆ Noise figure : 2.0 max
- ◆ Band width : 2 Mhz min
- ◆ Axial ratio : 3 dB max
- ◆ VSWR : 2.0 max
- ◆ Output impedance : 50 ohm