

# SDAR (Satellite Digital Audio Radio) Antenna

## MODEL: XM-700L



- High Gain & Low Noise
- ESD Resistance up to 8KV (Contact Discharge)
- Waterproof for Better Reliability
- Sirius and XM Radio Compatible

### Applications

- Performance Enhancement for Satellite Digital Audio Radio Systems with a Switch Circuit for an Optional Antenna
- Sirius Radio (U.S.) compatible car/ table/ portable radios and other kinds of radios
- XM Radio (U.S.) compatible car/ table/ portable radios and other kinds of radios

### Specification

| PHYSICAL CONDITION      |   |
|-------------------------|---|
| Constructions:          | Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof |
| Dimensions:             | 90.5mm(Dia.) × 108.5mm(H)   |
| Weight:                 | 150grams (w/o cable & connector).   |
| Color:                  | Standard in ivory white, other colours available upon request.  |
| Mounting Adapters       | Pole mount to 1"-14 UNS threaded mast   |
| Base mounting           | FB3A SUS L-MOUNTING 1"-14 UNS   |
| Cable & Connector       |   |
| RF cable:               | 10 meter RG58   |
| Pulling strength:       | 6 Kg @ 5sec. molded plastic on connector end for strain relief.   |
| Connector               | TNC or SMA or SMB or BNC or -----   |
| Antenna Element         |   |
| Center Frequency:       | 2338.75 MHz +/-6.25 MHz   |
| Polarization:           | R.H.C.P. (Right Handed Circular Polarization).  |
| Absolute Gain @ Zenith: | +2 dBi typical.   |
| Gain @ 10° Elevation:   | 1 dBi typical.  |
| Axial Ratio:            | 3 dB max.   |
| Output VSWR:            | 2.0 max   |

|   |   |
|---|---|
| Output Impedance:   | 50 ohm  |
| <b>Low Noise Amplifier</b>  |   |
| Center Frequency:   | 2338.75+/-6.25 MHz  |
| Power Gain:   | 30db +/-1db   |
| Bandwidth:  | 10 MHz min.   |
| Noise Figure:   | 1.0 typ   |
| Outer Band Attenuation:   | 10 dB min. @ Fo +/-10 Mhz.  |
| Supply Voltages:  | 4~5.5V DC.  |
| Current Consumption:  | 4V : 10.3 mA Typical<br>4.5V : 12 mA Typical<br>5V: 13 mA Typical<br>5.5V: 15 mA Typical                    |
| Output Impedance:   | 50W ohm   |
| <b>Overall Performance: (antenna element, LNA &amp; coax cable)</b> |   |
| Center Frequency:   | 2338.75+/-6.25 Mhz.   |
| Gain:   | At 90° vertical to sky 30 ± 4.5dBi<br>(cable loss) Note:1<br>Mounted on the 60mm x 60mm square ground plane |
| Noise Figure:   | 1.0 max.  |
| Axial Ratio:  | 2 dB max.   |
| Bandwidth:  | 10 MHz min. @S11≤-10 dB   |
| VSWR:   | 2.0 max.  |
| Output Impedance:   | 50W ohm   |
| <b>Environmental</b>  |   |
| Operating Temperature:  | -40°C~ +85°C.   |
| Storage Temperature:  | -40°C~ +90°C.   |
| Relative Humidity:  | 95% non-condensing.   |
| Water Resistance:   | 100% waterproof.  |

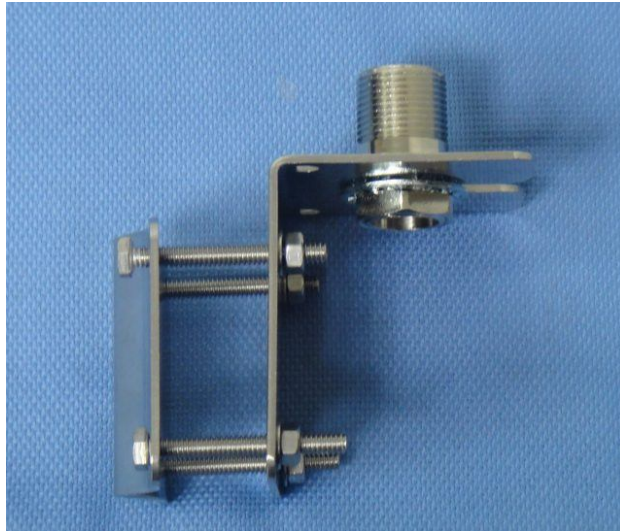
\* This specification is subject to change without prior notice

Data Updated: NOV.05, 2012



# Marine Antenna Base mounting

**MODEL: FB-3A**



**1"-14 UNS threaded mast SUS304/C3604**

**Locks on the truck rear-view mirror or on iron stand or flagpole**

