



UHF Circularly Polarized Panel Antenna For Mobile TV, Model AT15-225-CP

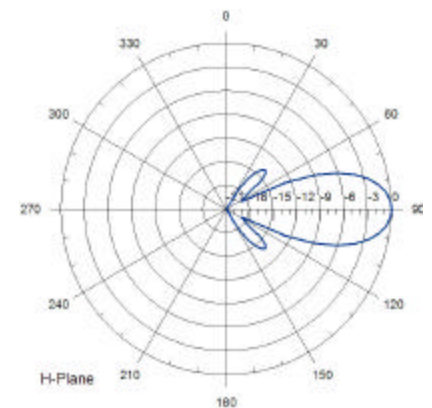
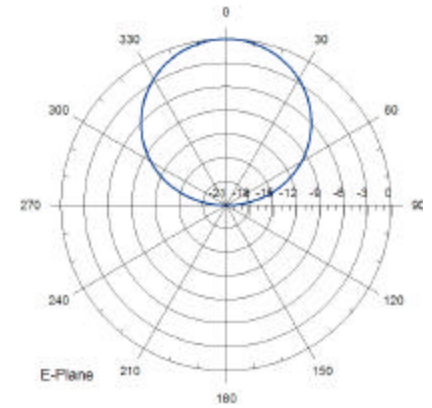
Electrical Specifications

| | | | | |
|----------------------------|-----------------------------------|--------------------------------|--------------|--|
| Frequency range | 470-722 MHz | | | |
| Peak gain | 11.1 dB (ref. $\lambda/2$ dipole) | | | |
| 3 dB beam width | E-plane: 61° | | H-plane: 26° | |
| Polarization | Circular or Elliptical | | | |
| Impedance | 50 Ohm | | | |
| VSWR | ≤ 1.1:1 | | | |
| Maximum power handling RMS | 1 KW | 2.5 KW | 3 KW | |
| Connector type | DIN 7/16 | EIA 7/8" | DIN 13/30 | |
| Pressurization | Non pressurized | Gas barrier on input connector | | |



Mechanical & Environmental Specifications

| | |
|------------------------|---|
| Dimensions (W x D x H) | 19X10.9X38.7 inches |
| Maximum wind speed | 124 mph |
| Wind load (front) | 167 lbs (@100 mph) |
| Wind load (lateral) | 58 lbs (@100 mph) |
| Weight | 22 lbs |
| Typical mounting | Several combinations depending on the radiation pattern required (square typical) |
| Vertical spacing | 39.4 inches |
| Grounding | DC grounded |
| Temperature range | -40°C to +80°C |
| Humidity | 100% |



Antenna System Characteristics (w/o cylindrical radom)

| Number of Bays | Number ant. per bay | Peak gain (dBd) | Weight (lbs) | Wind load (CaAc Nom.) | System height (inches) |
|----------------|---------------------|-----------------|--------------|-----------------------|------------------------|
| 2 | 1 | 14.4 | 44 | 20.0 | 78.7 |
| | 2 | 11.4 | 88 | 35.0 | |
| | 3 | 9.6 | 132 | 35.0 | |
| | 4 | 8.3 | 176 | 35.0 | |
| 4 | 1 | 17.4 | 88 | 40.0 | 157.5 |
| | 2 | 14.4 | 176 | 70.0 | |
| | 3 | 12.6 | 264 | 70.0 | |
| | 4 | 11.4 | 352 | 70.0 | |
| 6 | 1 | 19.3 | 132 | 60.0 | 236 |
| | 2 | 16.1 | 264 | 105.0 | |
| | 3 | 14.4 | 396 | 105.0 | |
| | 4 | 13.1 | 529 | 105.0 | |
| 8 | 1 | 20.6 | 176 | 80.0 | 315 |
| | 2 | 17.4 | 352 | 140.0 | |
| | 3 | 15.6 | 529 | 140.0 | |
| | 4 | 14.4 | 705 | 140.0 | |

NOTES:
- Table supplies data up to 8 bays only for simplification purposes; systems with more bays are available.

- Available with full cylindrical radom for lower wind loading application.

- Null fill, beam tilt, harness & feeder losses NOT INCLUDED.

- Wind load & weight figures without considering cables, splitters & hardware

