



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

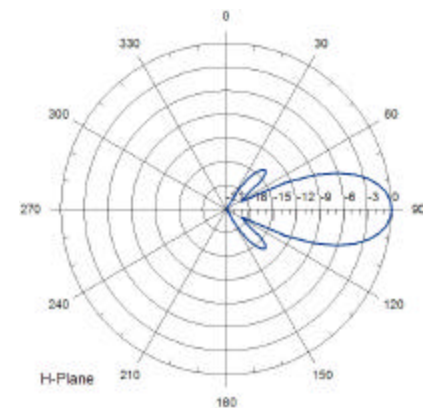
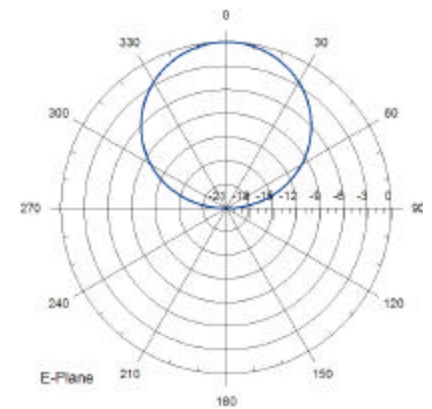
Electrical Specifications

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

4/13/09

