

# SINGLE BAND PANEL ANTENNA

## BAND 900 MHz

### AT42-686TV

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 870 - 960
 

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 H88° V7.1°
 

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 Variable Tilt 0°-8°
 

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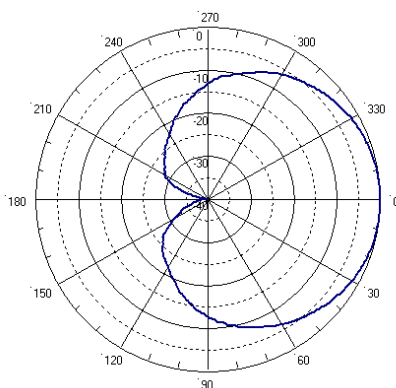
#### ELECTRICAL SPECIFICATIONS

**BAND 900**

Antenna Model	AT42-686TV
Polarization	± 45°
Frequency (MHz)	<b>870 - 960</b>
Horizontal Beamwidth	88°
Vertical Beamwidth	7.1°
Gain (dBi)	16.5
Vertical Electrical Tilt	VARIABLE 0°-8°
Upper Sidelobe Suppression for the 1 <sup>st</sup> lobe above main beam (dB)	16
Front-to-Back Ratio @ 180° ± 20° (dB)	> 22
VSWR	< 1.4 : 1
Cross Polar Ratio @ ± 60° (dB) <i>Typically</i>	> 10
Isolation Between Ports	> 30
Maximum Power Per Input (W)	500
Intermodulation (dBc)	< - 150
Impedance (Ω)	50

#### MECHANICAL SPECIFICATIONS

Connectors	2 X 7/16 Female
Connector Position	Bottom
Survival Wind Speed km/h (mph)	200 (125)
Front Windload N @ 160 km/h (lbs @100 mph)	1350 (303)
Lateral Windload N @ 160 km/h (lbs @100 mph)	270 (61)
Radome Color	Grey, paintable
Humidity	100%
Antenna Weight kg (lbs)	24 (53)
Antenna Dimension mm (in) H X W X D	2530 X 325 X 115 (100 X 13 X 5)


*H&V Pattern*
