

## Civil Aviation Yagi Antenna

### Model Y112B-130V

This TACO Yagi antenna is specifically designed to blend the benefits of omnidirectional and directional communications for ATC applications. The Y112B-130V provides extended directional range for early communications with high velocity or high volume inbound air traffic while maintaining azimuth coverage for standard inbound and holding pattern traffic within the controlled air space.

### ELECTRICAL

FREQUENCY RANGE (MHz)	118 – 137	
GAIN (dBi)	10.4	
IMPEDANCE (Ohm)	50	
POLARIZATION	Vertical	
BACK TO FRONT RATIO (dB)	10.4	
VSWR (°)	Min.	1.4
	Max.	1.8
	Typical	1.6
HPBW (°)	Horz.	82
	Vert.	55
1 <sup>ST</sup> SIDELobe SUPPRESSION (dB)	6	
STD. CONNECTOR	N	
MAX. INPUT POWER (W)	500	
OPERATING TEMPERATURE (°C)	-50 – 100	

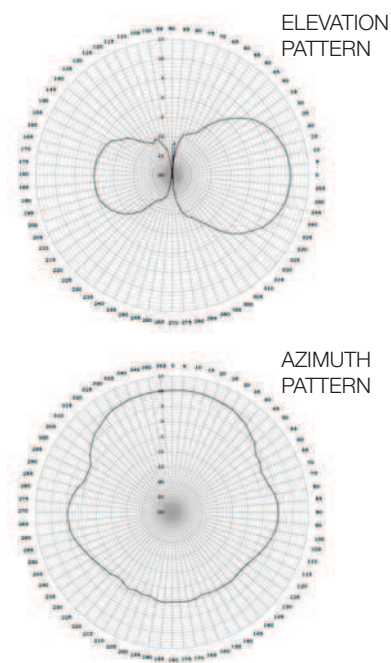
### MECHANICAL

NUMBER OF ELEM.	11
OVERALL LENGTH (in)	108
ANTENNA WEIGHT (lb)	13

### MOUNTING

TYPE	In Line Pipe Mount
MAST O.D. (in)	1.66 TO 3
AZIMUTH ADJUSTMENT (°)	360

### ANTENNA PATTERNS



### WIND LOADING

WIND AREA	(No Ice)	2.92
	(1/2 Radial Ice)	5.28
WIND LOAD	*No Ice	93
	** (1/2" Radial Ice)	52.79

\* Wind Speed = 100 MPH at sea level with 100% Humidity at Seventy Degrees Fahrenheit.  
 \*\* Wind Speed = 50 MPH at sea level with 100% Humidity at Zero Degrees Fahrenheit.

TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.