

IFF Antenna Model 4341001

Air Traffic Control Antennas

The 4341001 Antenna is a rugged L-Band Transmit/Receive Omnidirectional Antenna that provides excellent elevation coverage. It can be utilized either as a stand alone antenna or in conjunction with a directional antenna.

In a stand alone configuration, Antenna 4341001 can be used with an Air Traffic Control transponder to transmit and receive ATC data.

When used in conjunction with an L-Band directional antenna, Antenna 4341001 provides the directional antenna with side lobe suppression.

The Antenna 4341001 antenna is a simple, rugged, low cost antenna that can be used in both ground base and shipboard applications



- Omnidirectional Azimuth Pattern
- Excellent Elevation Pattern
- Rugged Construction
- Integrated Filter

Revision B



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Technical Specifications

Electrical	
Frequency Band	1030±2 & 1090±2 MHz
Polarization	Vertical
Gain Sum	2.8dBi Min
Sum Azimuth B.W.	Omnidirectional
Sum Elevation B.W.	47.0 Deg. Nominal
VSWR	
1030 MHz	1.42 : 1.0 Maximum
1090 MHz	1.42 : 1.0 Maximum
Power Rating	5 kW Peak, 50 W Avg.

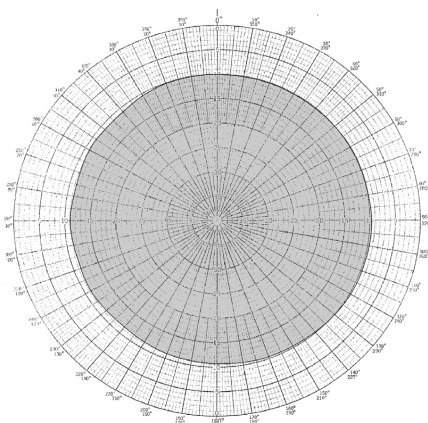
Environmental	
Temperature Hi/Low	+125° to -40° C
Relative Humidity	95%
Wind Speed	100 Knots Relative
Ice Loads	4.5 lb per square foot

Configurations	
LC to N Adapter	PN: 4341001
LC to HN Adapter	PN: 4343001

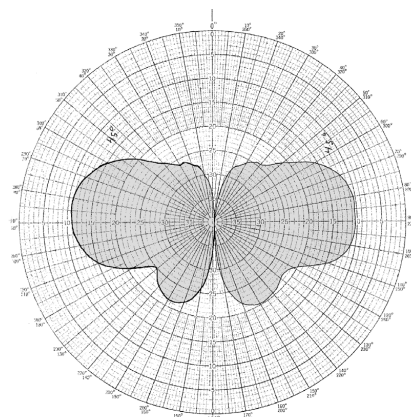
Mounting Information	
Mast Mount (Diameter) 1½" IPS Heavy Wall Pipe (1.900 in OD)	

Physical	
Weight	7 lbs. (3.17 kg) Max.
Height	20.1 in (51.12 cm) Max.
Depth	6.5 in (16.51 cm)
Finish	Polyurethane MIL-PRF-85285 per FED-STD-595
Color	24084 Green
	26270 Gray
National Stock Number	N/A

Antenna Patterns:



Azimuth Radiation Pattern



Elevation Radiation Pattern