AEROSPEC

VHF COMMUNICATIONS ANTENNA

TECHNICAL SPECIFICATION | MODEL AS-AV-17

ELECTRICAL SPECIFICATIONS

Frequency Range	**118 – 137 MHz**
Impedance	**50 Ω (nominal)**
VSWR	**2.0:1 maximum**
Polarization	**Vertical**
Radiation Pattern	**Omni-directional**
RF Power Capacity	**30 W**
Connector	**BNC female**
Applications	**VHF COM (AM voice)**

MECHANICAL SPECIFICATIONS

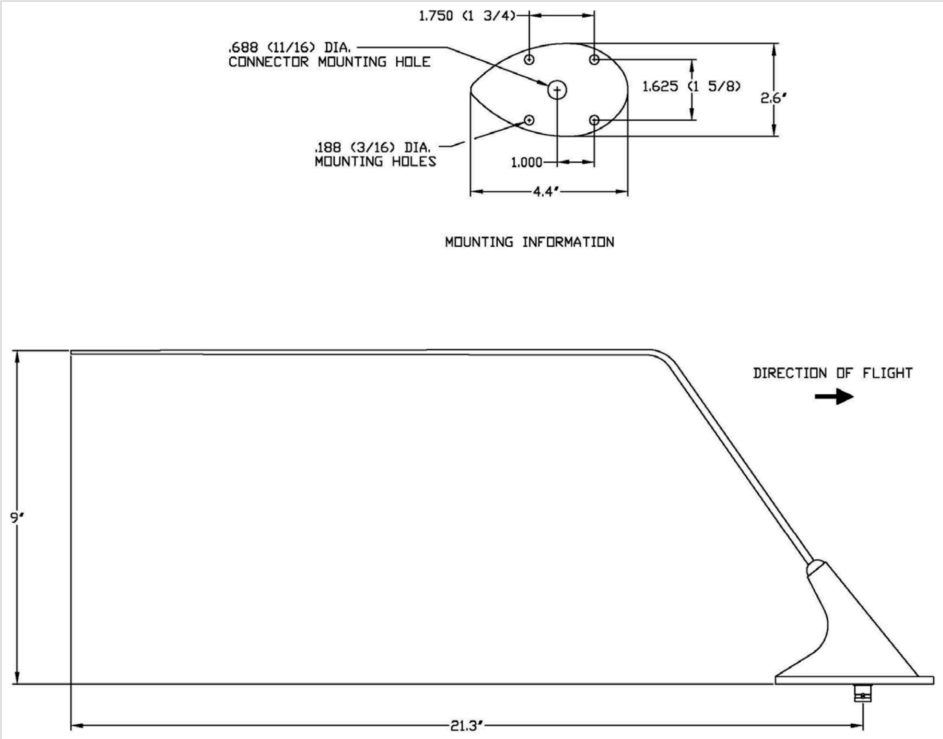
Max Height	**9.0 in (228.6 mm)**
Overall Length	**21.3 in (541.0 mm)**
Max Weight	**8 oz (227 g)**
Base Plate Footprint	**4.4 × 2.6 in**
Mounting	**4× Ø 0.188 in (3/16) holes**
Mounting Hole Spacing	**1.750 × 1.625 in**
Connector Hole	**Ø 0.688 in (11/16)**
Mounting Hardware	**#8-32 screws, rubber pad, back-up plate**

MATERIALS & CONSTRUCTION

Cover Plate	**Aluminium**
Base	**Aluminium alloy, baking paint**
Mast	**Stainless steel (SUS631)**
Connector	**Brass, nickel plated**

Scope of this document. Electrical and mechanical data for the AEROSPEC AS-AV-17, with the measured VSWR of a production sample. The low-profile swept design keeps the height to 9 inches, which suits installations with limited vertical clearance while retaining full VHF COM band coverage.

DIMENSIONAL DRAWING



Overall dimensions and mounting information (inches)

VSWR MEASUREMENT



Measured VSWR, 115 – 140 MHz. Marker 1: 118 MHz = 2.35 · Marker 2: 137 MHz = 1.83. The minimum of approximately 1.4:1 is reached in the centre of the band.