



U.S. Patent No. 4,460,894

DESCRIPTION

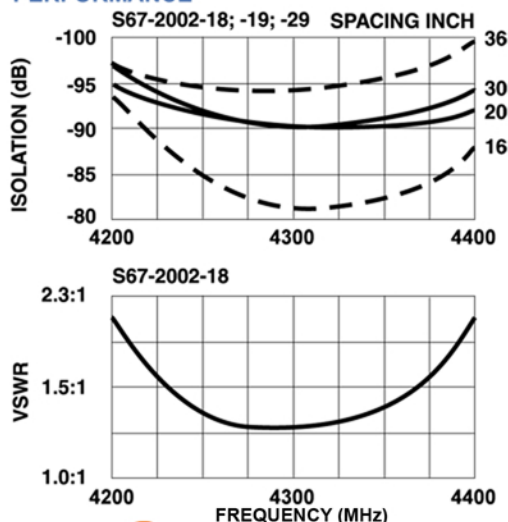
S67-2002-19: Thin, flush-mounted radio altimeter antenna designed to provide improved performance as well as to reduce size and weight. Small size provides ease of mounting and is ideal for General Aviation and ARINC equipment. The antenna is smaller and lighter than existing horns. DC-grounded and hermetically sealed. Requires mounting with four 10-32 screws.

Unit is interchangeable with Collins, Bendix, Sperry, Honeywell, and TRT Systems. Also compatible with Fokker application, F50-100.

NSN: 5985-01-424-4935

FEDERAL & MILITARY SPECS: FAA TSO-C87, ARINC 707/552, MIL-E-5272C, MIL-E-5400, RTCA DO-160.

PERFORMANCE



| SPECIFICATIONS | |
|----------------------|---|
| MODEL | S67-2002-19 |
| ELECTRICAL | |
| Frequency | 4200-4400 MHz |
| VSWR | ≤ 1.5:1 (4275-4325) ≤ 2.0:1 (4200-4400) |
| Polarization | Linear |
| Impedance | 50 ohms |
| Beam Width | Roll Plane (E): 45° min. Pitch Plane (H): 40° min. |
| Power Handling | 5 Watts average 500 Watts peak |
| Side Lobe Level | -40 dB |
| Gain | 9.5 dBi |
| Lightning Protection | DC grounded |
| MECHANICAL | |
| Weight | .25 lb |
| Height | 0.15 in. |
| Length | 4.15 in. |
| Width | 3.55 in. |
| Material | 6061-T6 aluminum / teflon glass |
| Finish | Skydrol-resistant polyurethane enamel |
| Connector | TNC Female |
| ENVIRONMENTAL | |
| Temperature | -55°C (-67°F) to +85°C(+185°F) |
| Vibration | 10 Gs |
| Altitude | -1000 ft. to +45,000 ft. |

