



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

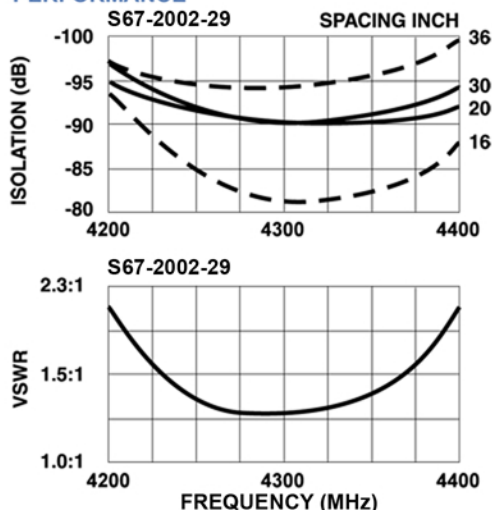
DESCRIPTION

S67-2002-29: 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. Consists of lock-wire provision for coaxial connector.

Unit is interchangeable with Collins, Bendix, Sperry, Honeywell and TRT Systems.

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

PERFORMANCE



| SPECIFICATIONS | S67-2002-29 |
|----------------------|---|
| MODEL | |
| ELECTRICAL | |
| Frequency | 4200-4400 MHz |
| VSWR | ≤ 1.5:1 (4275-4325 MHz) ≤ 2.0:1 (4200-4400 MHz) |
| 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 | Gloss white #17925 per FED. STD. 595 |
| Connector | TNC Female |
| ENVIRONMENTAL | |
| Temperature | -55°C (-67°F) to +85°C (+185°F) |
| Vibration | 10 Gs |
| Altitude | -1000 ft. to +45,000 ft. |

