



## DESCRIPTION

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

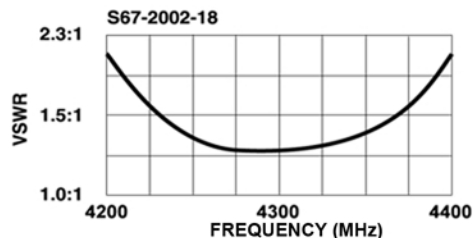
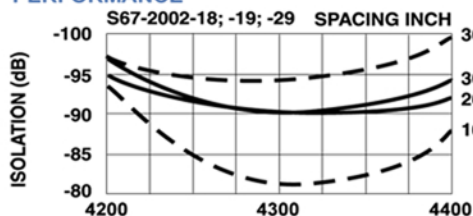
**S67-2002-18:** Thin, flush-mounted radio altimeter antenna designed to provide improved performance as well as to reduce size and weight. Small size provides ease of mounting and is ideal for General Aviation and ARINC equipment. The antenna is smaller and lighter than existing horns. DC-grounded and hermetically sealed. Requires mounting with four 10-32 screws.

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

NSN: 5985-01-479-9858

**FEDERAL & MILITARY SPECS:** FAA TSO-C87, EASA ETSO-2C87, ARINC 707/552, MIL-E-5272C, MIL-E-5400, BAC S220T112, D6-44599.

## PERFORMANCE



| SPECIFICATIONS               |                                                       |
|------------------------------|-------------------------------------------------------|
| MODEL                        | S67-2002-18                                           |
| ELECTRICAL                   |                                                       |
| Frequency                    | 4200-4400 MHz                                         |
| VSWR                         | ≤ 1.5:1 (4275-4325 MHz)<br>≤ 2.3:1 (4200-4400 MHz)    |
| Polarization                 | Linear                                                |
| Impedance                    | 50 ohms                                               |
| Beam Width                   | Roll Plane (E): 45° min.<br>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 (113 g) Max                                    |
| Height                       | 0.170 in. (4.3 mm)                                    |
| Length                       | 4.15 in. (105.4 mm)                                   |
| Width                        | 3.55 in. (90.2 mm)                                    |
| Material                     | Aluminum 6061-T6, teflon/glass                        |
| Finish                       | Skydrol-resistant polyurethane enamel                 |
| Connector                    | TNC Female                                            |
| ENVIRONMENTAL                |                                                       |
| Temperature                  | -55°C (-65°F) to +85°C (+185°F)                       |
| Vibration                    | 10 G's                                                |
| Altitude                     | -1,000 to 45,000 ft.                                  |
| ISOLATION H-PLANE At 4.3 GHz | 20"=85 dB, 30"=90 dB, 36"=95dB                        |

