

# TCAS Antenna S72-1735-24



## Description

**S72-1735-24:** Directional 4-element array antenna for Garmin GTS 800 TAS systems designed for high speed aircraft. The low profile, teardrop-style radome is constructed of special material providing enhanced lightning strike protection. A Polyfilm leading edge shield mitigates erosion and collision damage. Standard TNC female connector (1.40 in. length). Garmin part number 013-00276-00.

**FEDERAL & MILITARY SPECS:** RTCA DO-160B, FAA TSO C119, ARINC 735A-1, MIL-STD-454, DO-185A, MIL-DTL-5541.

## Specifications

### Electrical

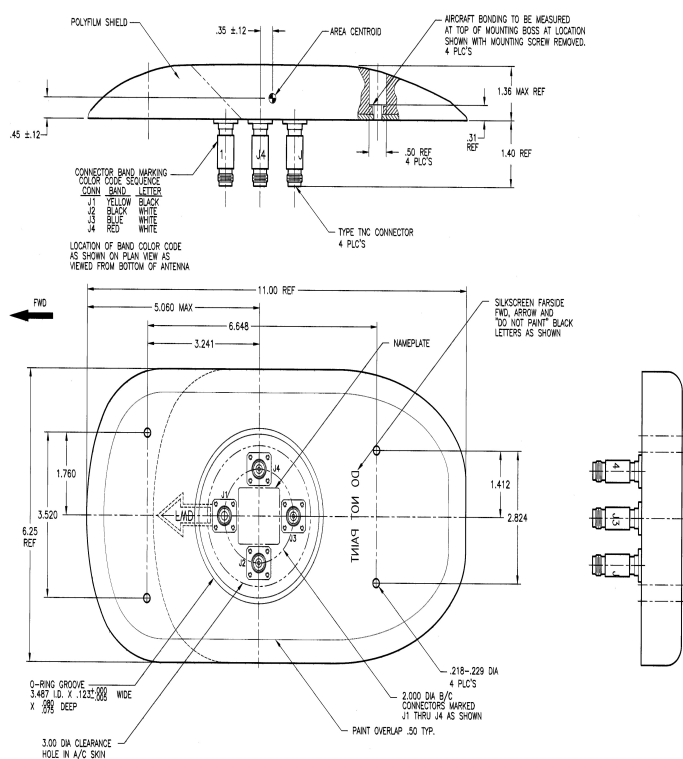
|                  |   |
|------------------|---|
| Frequency        | 1030 $\pm$ 1 MHz<br>1090 $\pm$ 3 MHz  |
| VSWR             | $\leq$ 1.5:1  |
| Polarization     | Direct. Mode: Vertical  |
| Gain             | Direct. Mode: 3.6 dB, 1/4 wave monopole<br>Omni. Mode: -1 $\pm$ 1 dB, 1/4 wave monopole |
| Impedance        | 50 $\Omega$   |
| Power Handling   | 1000 Watts Peak @ 1% Duty Cycle   |
| Sidelobe         | Direct. Mode: -8 dB min.  |
| Sector Beamwidth | Direct. Mode: 80° min.  |

### Mechanical

|           |   |
|-----------|---|
| Weight    | 27 oz.                                  |
| Height    | 1.36 in.                                |
| Length    | 11.00 in.                               |
| Width     | 6.25 in.                                |
| Material  | 6061 Aluminum Alloy / Thermoset Plastic |
| Finish    | Skydrol Resistant Enamel                |
| Connector | TNC Female (4)                          |

### Environmental

|             |                                |
|-------------|--------------------------------|
| Temperature | -55°C (-67°F) to +85°C (185°F) |
| Altitude    | 55,000 ft.                     |



Please Note: For REFERENCE ONLY  
Contact Sensor Systems for latest drawing



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