

# TCAS I S72-1746



## Description

**S72-1746:** Traffic Collision Avoidance System I (TCAS I) antenna. It is a low-profile antenna with a teardrop radome and leading edge shield. The antenna is DC grounded and provides lightning strike protection. It features a directional four element array; as well as an integrated Sum and Difference output capacity. This antenna is suitable for general aviation aircrafts and available with L-3's "Skywatch" systems.

**FEDERAL & MILITARY:** FAA TSO-C118, DO-160C, MIL-STD-454, and AMS-C-5541.

## Specifications

### Electrical

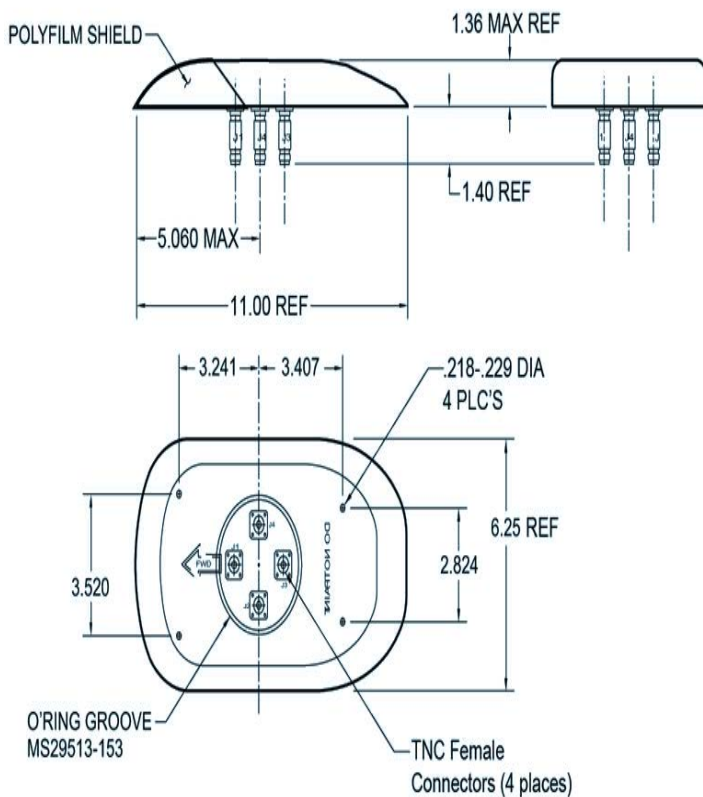
Frequency	1030 ± 1 MHz 1090 ± 3 MHz
VSWR	2.0:1 (1030 ± 1 MHz) 2.3:1 (1090 ± 3 MHz)
Gain	Delta Port: 2.5 dBi min @ 1030 MHz 2.0 dBi min @ 1090 MHz Sigma Port: 1.0 dBi min @ 1030 MHz 1.5 dBi min @ 1090 MHz
Polarization	Vertical
Impedance	50 Ω
Power	Delta/Sigma Port: 1000 Watts Peak @ 1% Duty Cycle, Transmit / Receive Probe Port: 10 Watts Max
Isolation	-20 dB min
Probe Coupling	Delta Port: -35 ± 4 dB @ 1030 MHz -34 ± 4 dB @ 1090 MHz Sigma Port: -26 ± 2 dB @ 1090 MHz
Bearing Error	± 9°

### Mechanical

Weight	2.3 lbs.
Height	1.30 in.
Length	11.00 in.
Width	6.25 in.
Material	6061-T6 Aluminum / Thermoset Plastic
Finish	Skydrol Resistant Polyurethane Enamel
Connector	Delta & Sigma Port: TNC Female Probe Port: BNC Female

### Environmental

Temperature	-55°C (-67°F) to +70°C (+158°F)
Altitude	55,000 ft.



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



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