

# VOR/ILS S65-247-10



## Description

This antenna is electrically designed based on a modified Alford loop configuration. This design enables the antenna to achieve an optimal impedance match across the entire bandwidth while maintaining omnidirectional radiation patterns.

The **S65-247-10** antenna is designed with rugged construction techniques that have an unmatched reliability record on the Boeing 747 aircraft.

The antenna has a cast aluminum base that facilitates easy installation. The radiation elements are supported by a honeycomb epoxy structure, and a matching balun is incorporated internally. This antenna is well-suited for tail-fin installations on large aircrafts.

## Federal & Military Certifications:

MIL-E-5272C, MIL-E-5400H, and ARINC Characteristic 547.

## Specifications

### Electrical

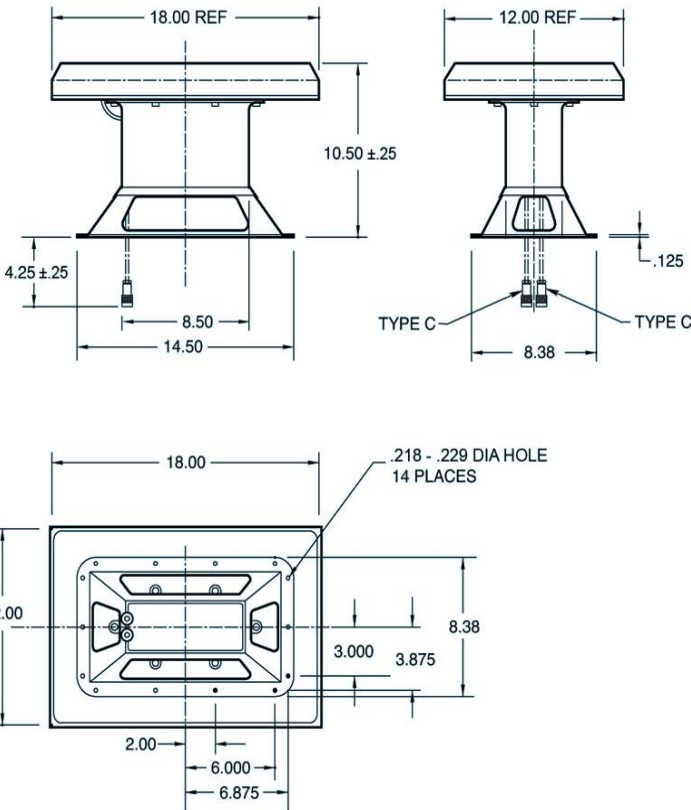
Frequency	108-118 MHz
VSWR	≤5.0:1
Polarization	Linear (Horizontal)
Patterns	Omnidirectional in Azimuth Cosinusoidal in Elevation
Impedance	50 Ω

### Mechanical

Weight	5.2 lbs.
Height	10.50 in.
Length	18.00 in.
Width	12.00 in.
Material	Aluminum with Epoxy / Fiberglass Support
Finish	Prime Light Gray per BMS-10-103C
Connector	C Female (2) on 14 in. pigtails

### Environmental

Temperature (Operating)	-73°C (-100°F) to +121°C (+250°F)
Altitude	50,000 ft.



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



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