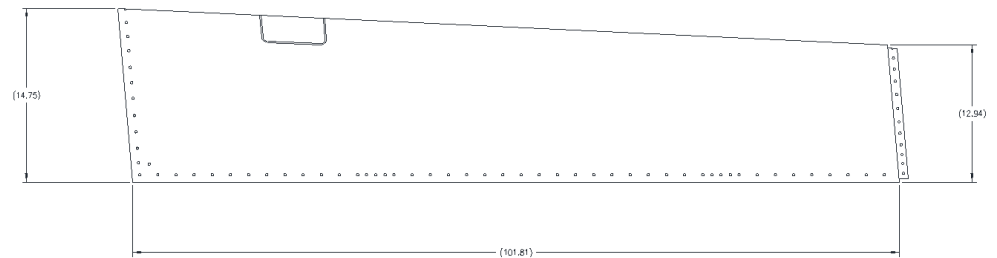
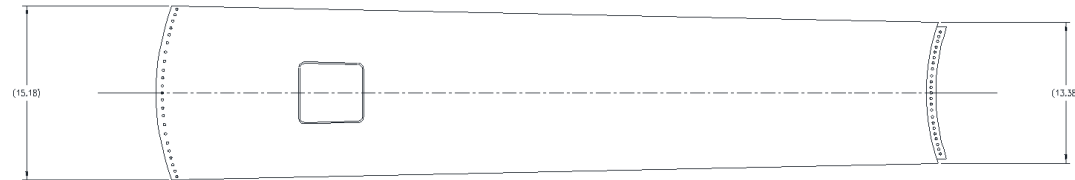


# HF10-636-56

HF Conformal Antenna (Vertical Stab Leading Edge)



Excellence in Aerospace since 1943



## Specifications

### Electrical

Frequency	2-30 MHz
Polarization	Vertical
Radiation Pattern	Omnidirectional
Impedance	50 ohms
RF Power Handling	200 Watts CW

### Mechanical

Weight	45 lbs (20.4 kg)
Length	8.5 ft (2591 mm)
Material	Aluminum & Fiberglass
Finish	Bright Aluminum and Epoxy
Connector	Stud

### Environmental

Temperature	Same as B-727 specs
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### Federal Specifications

Approvals	STC, PMA : Boeing 727
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## HF10-636-56 HF Antenna (Vertical Stabilizer Leading Edge)

The HF10-636-56 is a folded HF slot antenna incorporated into a modified vertical stabilizer leading edge of the Boeing 727 aircraft. The HF radiating slot is cut into the aluminum skin of the original vertical stabilizer. The antenna element excites the entire tail section of the aircraft, thus providing omnidirectional radiation patterns. Shadowing of the aircraft structure is minimized by implementing this HF conformal design. Using this design eliminates the use of HF wire antennas and provides a reduction in aerodynamic drag, caused by the exterior wire antenna hardware. This translates into additional fuel cost savings. This antenna structure is a direct replacement for the existing vertical stabilizer leading edge cover simplifying the installation (the unit has identical hole patterns as the original leading edge cover).

## Applications

Designed specifically for installation on the leading edge of the Boeing 727.