

TechComm

Direction Finder
Systems

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TC-6526/FO DIRECTION FINDER ANTENNA



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System Description

The TC-6526/FO Direction Finder Antenna is a permanently installed, mast mounted, frequency tailored Ferrite Loop Array. The processor uses a Watson Watt Technique (HF) to measure angle of arrival of a received signal wavefront, and provide the line-of-bearing azimuth from the Direction Finder Antenna.

Features + Specifications

Frequency Range

200 kHz – 30 MHz

Type

Ferrite Loop Array

Size

Overall Height	58 inches, nominal
TC-6526 FO	6.5 inches, nominal
Diameter	23 inches, nominal
HF Sense Antenna	52 inches, nominal, on later models

Sense Antenna

The TC-6526/SA Sense Antenna (Whip) is at the center of the antenna base. It is part of the HF DF component of the DF Antenna, and is used only for monitor or DF Operations in the HF frequency band.

Horizontal Coverage

360 Degrees

Vertical Coverage

+30, -30 Degrees, Typical

RF Outputs

DF RF

Impedance

50 Ohms, nominal

PreAmplifiers

Switchable in / out

Mounting

The DF Antenna is positioned on a mobile platform with the mechanical North marker oriented towards the front of the platform, in the direction of movement. The antenna is secured to the platform by bolting the antenna base plate to a secure mast or mount on the platform. The mounting plate at the base of the antenna mast is a solid aluminum plate with standoffs.

Accuracy

5 degrees *RMS*

Power

Supplied from DF Processor

Weight

23 lbs, typical