RDF PRODUCTS

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Product Data Sheet; Model DFA-1265B1 *Ultra-Wide Coverage*

VHF/UHF Dipole Adcock Radio Direction Finding Antenna (Preliminary)

FEATURES

- **20-1,000 MHz Ultra-Wide Coverage In Four Bands**
- **Fixed-Site Mast-Mount Design**
- **True Adcock - Does Not Use Inferior Loops**
- **2.0/3.0 Degrees RMS Typical V/UHF Bearing Accuracy**
- **High Signal Handling Capability**
- **Built-in RS-232 Personality Module**
- **Rugged, Weather-Sealed Design**

Available Early 2007

DESCRIPTION

The RDF Products Model DFA-1265B1 is a dual-array VHF/UHF dipole Adcock single-channel radio direction finding antenna covering 20-1,000 MHz in four bands. This rugged, weather-sealed unit is specifically designed for permanent or transportable fixed-site DF applications and is readily mast- or tower-mounted.

Being of a true Adcock design, the DFA-1265B1 avoids the erratic performance associated with inferior loop DF antennas and provides sensitivity and listen-thru capability superior to that of comparable pseudo-Doppler DF antennas. The DFA-1265B1 has also been designed for high signal-handling capability for reliable performance in dense signal environments. It is a particularly good choice for tactical military, signal intelligence, and frequency management applications where ultra-wide frequency coverage is required.

The mast is specially designed to provide electrical isolation to both minimize the effect of the support structure and to avoid interaction between the arrays (see DFA-1310B1 product data sheet).

The DFA-1265B1 directly interfaces with all RDF Products “B”-series DF processors via a detachable standard 25' (or custom length) interface cable set. The aerial sets are removable for convenience of shipping and storage.

SPECIFICATIONS

DF Technique:	Single-channel 2-phase Adcock (mixed sense)
Frequency Coverage:	20-88/88-200/200-470/ 470-1,000 MHz
Bearing Accuracy:	4.0 degrees RMS max.; 2.0° RMS typical (VHF) 3.0° RMS typical (UHF) (ideal siting conditions)
Polarization:	Vertical
Output Impedance:	50 ohms nominal
2nd Order Intercept:	+40/+28 dBm typical (VHF/UHF; referenced to sense input)
3rd Order Intercept:	+25/+13 dBm typical (VHF/UHF; referenced to sense input)
Power Requirements:	11-16 VDC @ 400 mA (negative ground)
Operating Temperature:	-40 to +60 degrees C
Storage Temperature:	-40 to +70 degrees C
Humidity:	0-100%
Dimensions:	16' x 1.7' x 1.7' (HxWxD)
Weight:	40 lbs.

Note: Specifications are subject to change without notice.

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