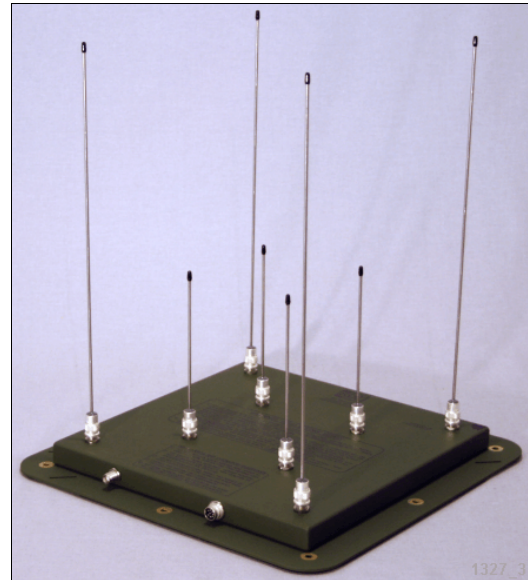




FEATURES

- 27-520 MHz Frequency Coverage in Three Bands
- True Adcock Design - Does Not Use Inferior Loops
- 1.5/2.5° (VHF/UHF) RMS Typical Bearing Accuracy
- Ultra-High Signal Handling Capability
- Vehicle Roof-Top or Aircraft Installation
- Low-Profile Platform with Removable Aerials
- Built-In RS-232 Personality Module



DESCRIPTION

The RDF Products Model DMA-1276B2 is a dual 4-aerial VHF/UHF monopole Adcock single-channel radio direction finding antenna covering 27-520 MHz in three bands (27-88/88-300/300-520 MHz). This rugged, compact, light-weight, weather-sealed unit is specifically designed for mobile DF applications, and is easily installed on cars, vans, aircraft, or any platform having a sizeable metallic ground plane. The aerials do not need to be changed to cover the full specified frequency range, and are easily removed for convenience of shipping and storage.

Being of a true Adcock design, the DMA-1276B2 avoids the erratic performance associated with inferior loop DF antennas and provides sensitivity and listen-thru capability superior to that of comparable pseudo-Doppler units. The DMA-1276B2 has also been designed with ultra-high signal-handling capability for reliable performance in dense signal environments. This unit is particularly attractive for land-mobile DF applications in the high-VHF and UHF range, offering very wide frequency coverage in a compact package.

The DMA-1276B2 directly interfaces with all RDF Products DF receivers and bearing processors via a 4.5-meter interface cable. With its built-in personality module, the unit automatically conveys model and band information via RS-232 to RDF Products "B"-series DF processors.

SPECIFICATIONS

DF Technique:	Single-channel 2-phase Adcock (derived sense)
Frequency Coverage:	27-520 MHz (three bands)
Bearing Accuracy:	3° RMS maximum; 1.5° RMS typical (VHF) 2.5° RMS typical (UHF) (ideal siting conditions)
Polarization:	Vertical
Output Impedance:	50 ohms nominal
2nd Order Intercept (#):	+40/+36 dBm typical (VHF/UHF, referenced to derived sense input)
3rd Order Intercept (#):	+25/+25 dBm typical (VHF/UHF, referenced to derived sense input)
Power Requirements:	11-16 VDC/250 mA (negative ground)
Operating Temperature:	-40 to +60 degrees C
Storage Temperature:	-40 to +70 degrees C
Humidity:	0-100%
Dimensions:	17.875"x15.875"x15.875" (HxWxD; with standard aerial set and baseplate less cables)
Weight:	7.5 lbs. (with standard aerial set less cables)

(#) - Indicated specifications apply to 88-520 MHz range only.
Note: Specifications are subject to change without notice.

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APPLICATIONS INFORMATION

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The RDF Products Model DMA-1276B2 has been designed as a general-purpose VHF/UHF mobile DF antenna covering an ultra-wide frequency range in a compact, light-weight package. One of the outstanding features of this unit is its ability to cover its full 27-520 MHz range without the inconvenient requirement for removing the unused aerial set. More specifically, it is not necessary to remove the VHF (outer) aerial set for UHF operation (a common requirement for dual 4-aerial Adcock designs).

For vehicle roof-top installations, nylon mounting straps and rain-gutter hooks are supplied for fast and convenient temporary mounting to cars, vans, mini-vans, and utility vehicles. These mounting straps loop into the slots milled into the 1/8" thick bottom-plate for this purpose.

A rubber protective mounting pad is adhesively attached to the bottom-plate to protect painted vehicle roof-tops. The unit can also be bulkhead mounted using the 8 quarter-inch holes drilled into the bottom-plate flange. For the convenience of users contemplating bulkhead mounting, the protective adhesive-backed mounting pad can be supplied detached from the bottom-plate upon request.

The DMA-1276B2 includes a digital "personality module" that reports model number and frequency coverage information for this DF antenna. When connected to any one of the RDF Products "B"-series DF processors (e.g., the DFP-1000B, DFP-1010B, or DFR-1000B), the DMA-1276B2 automatically reports its model number and frequency coverage information. This information is then displayed so that the user can easily avoid out-of-band operation.

The DMA-1276B2 is intended for law-enforcement, surveillance, signal intelligence, frequency management, interference location, search-and-rescue, scientific, and other applications requiring professional-quality radio direction finding equipment.

This unit is very similar to the DMA-1276B1, which covers the same frequency range but employs slightly shorter VHF (outer) aeriels. For most land-mobile applications, we recommend the DMA-1276B2 since its VHF section is optimized for sensitivity in the heavily-used 148-174 MHz high-VHF civil band. The DMA-1276B1, however, is often more suitable where its shorter aeriels are advantageous or where optimum VHF sensitivity is desired in the 174-300 MHz range.