

## Technical Specification

### 3-174MHz, 350-512MHz

## DBD1

### VHF/UHF DUAL BAND COUPLER

**Performance:** The DBD1 is a dual band coupler. It is also referred to as a Diplexor. It can be used with dual band antennas and allows simultaneous operation when used with a dual band transceiver.

**Rugged Construction:** This unit is designed to handle 150 watts when connected to the correct ports. All 1000 volt capacitors have been used in filter stages to insure trouble free high power operation.

**Weatherproof:** The black anodized aluminum housing is designed to provide splashproof protection when installed in a vehicle during operation. Teflon "N" connector terminations insure highest quality interface for all signals.

**Isolation:** A minimum of 50dB isolation at VHF and UHF in active bands with VSWR @ less than 2:1 with all ports terminated at 50ohms.



#### ELECTRICAL SPECIFICATIONS:

<b>FREQUENCY RANGE:</b>	3-174, 350-512MHz
<b>INSERTION LOSS:</b>	<.4dB
<b>IMPEDANCE:</b>	50 ohms
<b>VSWR:</b>	<2:1 (All ports terminated)
<b>POWER RATING:</b>	150 watts

#### MECHANICAL SPECIFICATIONS:

<b>CONSTRUCTION:</b>	Black anodized aluminum housing
<b>TERMINATION:</b>	Teflon Type "N" female
<b>DIMENSIONS:</b>	4 1/8" (10cm)long x 3 1/4" (8.2cm) wide
<b>MOUNTING:</b>	Mounting Flange