

## Active VHF Antenna Splitter for VHF Radios and AIS Receivers with additional FM broadcast output „easySplit“

**Part No.**                    **A026**  
**Manufacturer:**       **Weatherdock AG, Am Weichselgarten 7, 91058 Erlangen, Germany**

<b>Topology:</b>	3-way antenna splitter
<b>Ports:</b>	<ul style="list-style-type: none"> <li>- port 1: VHF antenna IN/OUT</li> <li>- port 2: VHF IN/OUT (VHF-Radio)</li> <li>- port 3: AIS OUT (to AIS Receiver)</li> <li>- port 4: FM-Radio OUT</li> </ul>
<b>Port sockets:</b>	<ul style="list-style-type: none"> <li>- port 1: SO239 , 50 Ohm</li> <li>- port 2: SO239 , 50 Ohm</li> <li>- port 3: BNC, 50 Ohm</li> <li>- port 4: BNC, isolated, 50 Ohm</li> </ul>
<b>Frequency bands and signal transfer:</b>	<p><u>VHF radio operation: port 1 to port 2:</u></p> <ul style="list-style-type: none"> <li>- frequency: 150 to 165 MHz</li> <li>- VHF radio receiving: <ul style="list-style-type: none"> <li>- transfer: &gt; -4dB (&gt; -3.8 dB typical)</li> </ul> </li> <li>- VHF radio ON AIR <ul style="list-style-type: none"> <li>- power loss &lt; 1 dB (&lt; 0.8 dB typical)</li> </ul> </li> </ul> <p><u>AIS operation: port 1 to port 3:</u></p> <ul style="list-style-type: none"> <li>- frequency: 150 to 165 MHz</li> <li>- VHF radio receiving: <ul style="list-style-type: none"> <li>- transfer: &gt; - 4 dB (&gt; - 3.8 dB typical)</li> </ul> </li> <li>- VHF radio ON AIR: <ul style="list-style-type: none"> <li>- transfer: &lt; -30 dB (path decoupled)</li> </ul> </li> </ul> <p><u>FM Radio operation: port 1 to port 4:</u></p> <ul style="list-style-type: none"> <li>- frequency: 88 to 108 MHz</li> <li>- VHF radio receiving: <ul style="list-style-type: none"> <li>- transfer: &gt; -3 dB</li> </ul> </li> <li>- VHF radio ON AIR: <ul style="list-style-type: none"> <li>- transfer: &lt; - 30 dB (path decoupled)</li> </ul> </li> </ul>
<b>Power Handling:</b>	<ul style="list-style-type: none"> <li>- Maximum transmit power:    30W</li> <li>- Minimum transmit power:    400mW</li> </ul>
<b>Attack time:</b>	< 10msec (typ. < 7msec), after ramp-up of Transmitter Power



<b>Power supply:</b>	<ul style="list-style-type: none"> <li>- Operating Voltage: + 9 to + 28V</li> <li>- Operating Current: &lt; 65mA</li> <li>- Polarity protection</li> </ul>
<b>Fuse:</b>	built-in, self healing fuse, 200mA
<b>power socket/cable:</b>	<ul style="list-style-type: none"> <li>- <u>socket</u>:</li> <li>- pin 1: battery plus</li> <li>- pin 2: battery minus</li> <li>- <u>cable</u>:</li> <li>- red: battery plus</li> <li>- black: battery minus</li> </ul>
<b>User Interface:</b>	<ul style="list-style-type: none"> <li>- LED indicator for Power ON: green</li> <li>- LED indicator for ON AIR: red</li> </ul>
<b>Temperature range:</b>	for use under deck, 0°C to 60°C
<b>Mechanical data:</b>	<ul style="list-style-type: none"> <li>- overall size: 165 x 165 x 35 mm</li> <li>- weight: approx. 560gr net, approx. 900gr including packing</li> </ul>
<b>Approvals:</b>	<ul style="list-style-type: none"> <li>- CE/EN60945-2002</li> <li>- FCC CFR47 part 15, sections 15.107 and 15.109 (Class B)</li> </ul>

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**Sketch:**

