

## 2-Channel Hybrid Ring Power Splitter/Combiner for the 150 MHz band

### DESCRIPTION

- Combines two transmitters or receivers on the same antenna.
- Better utilization of good antenna position.
- The only combining option with very small Tx-Tx frequency spacing.
- 30 W load built-in.
- Two antennas on the same transmitter or receiver.
- Symmetrical 1:1 dividing ratio (-3 dB).
- Can be delivered with asymmetrical dividing ratio, e.g. -6 dB, -10 dB, -20 dB or -30 dB.
- Centre frequency to be specified by the customer within 150 - 175 MHz.

### SPECIFICATIONS

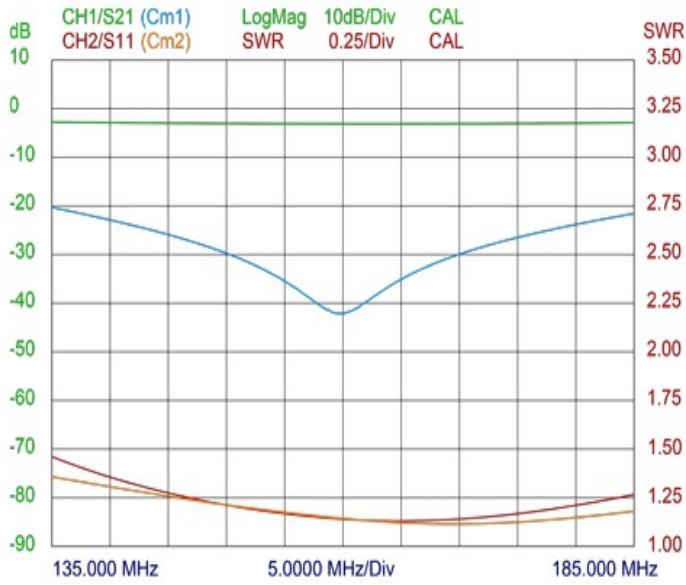
Electrical	
Model	PRO-MPHY150-2-... dB
Filter Type	Hybrid Junction
Frequency	To be stated within 150 and 175 MHz
Max. Input Power	30 W per channel when used as a power combiner. 60 W when used as a power divider. Note: When used as a power combiner, extra cooling is necessary. At 2 x 30 W the unit requires a heatsink with $R_{th} \leq 3^{\circ}\text{C/W}$ .
Insertion Loss	< 3.3 dB @ $\pm 5$ MHz BW
Impedance	50 $\Omega$
Isolation	> 30 dB @ $\pm 5$ MHz BW
VSWR	< 1.3:1 within $\pm 5$ MHz from centre frequency, all other ports terminated with 50 $\Omega$
No. of Channels	2
Mechanical	
Connection(s)	N(f)
Dimensions	129 (incl. conn.) x 152 (incl. flanges) x 35 mm 5.08 x 5.98 x 1.38 in.
Weight	0.45 kg / 0.99 lb.
Environmental	
Operating Temperature Range	-30°C to +60°C

### ORDERING

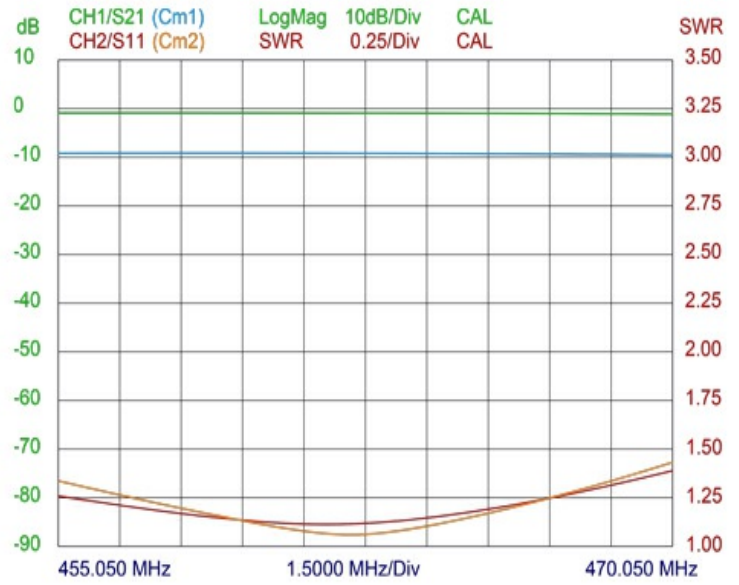
Model	Product No.
PRO-MPHY150-2-3 dB-N(f)	210000514
PRO-MPHY150-2-6 dB-N(f)	210001431
PRO-MPHY150-2-10 dB-N(f)	210000624
PRO-MPHY150-2-20 dB-N(f)	210000752
PRO-MPHY150-2-30 dB-N(f)	210000725



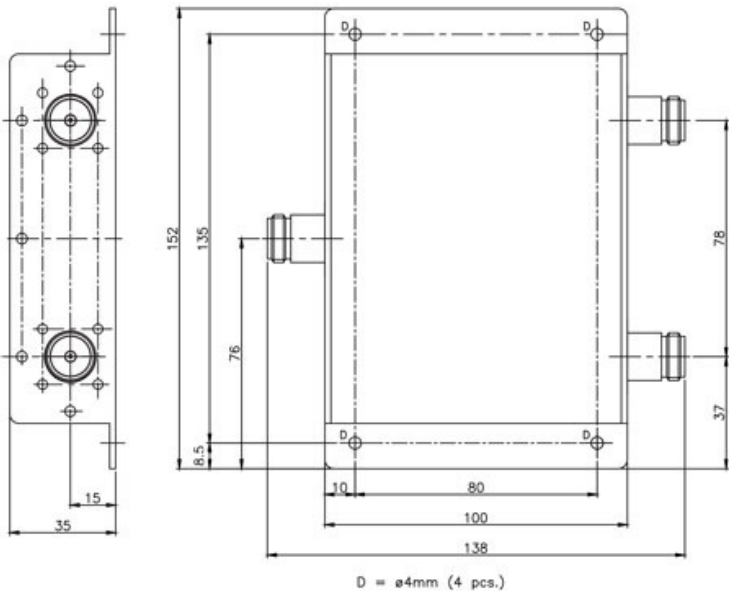
TYPICAL RESPONSE CURVE (3 DB VERSION)



TYPICAL RESPONSE CURVE (10 DB VERSION)



MOUNTING DETAILS



All dimensions are given in mm [in.]