

2-Channel Hybrid Ring Power Splitter/combiner for the 450 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 or -15 dB.
- Centre frequency to be arbitrary specified by the customer within 380 - 475 MHz.

SPECIFICATIONS

Electrical	
Model	PRO-MPHY450-2-.. dB-N-...
Filter Type	Hybrid Junction
Frequency	To be stated within 380 and 475 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 Rth =3°C/W.
Impedance	50 Ω
VSWR	< 1.5:1 within +/- 10 MHz from centre frequency, all other ports terminated with 50Ω.
No. of Channels	2 - 2
Mechanical	
Connection(s)	N female (other on request)
Dimensions	129 (incl. conn.) x 152 (incl. flanges) x 35 mm 5.08 x 5.98 x 1.38"
Weight	0.35 kg / 0.77 lb
Environmental	
Operating Temperature Range	-30°C to +60°C

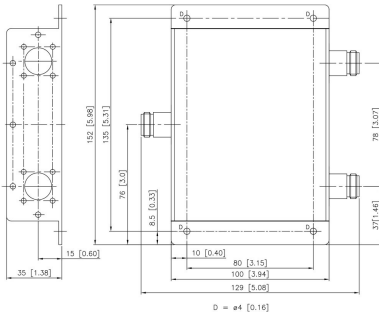
ORDERING

Type	Product No.
PRO-MPHY450-2-3 dB-N	210000606
PRO-MPHY450-2-6 dB-N	210000728
PRO-MPHY450-2-10 dB-N	210000746
PRO-MPHY450-2-15 dB-N	210001145



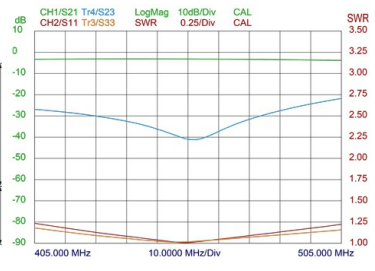
DIAGRAM

MOUNTING DETAILS



All dimension are given in mm [in.]

TYPICAL RESPONSE CURVE (3 dB version)



TYPICAL RESPONSE CURVE (10 dB version)

