

# TX-COMBINERS AND HYBRIDS

## PRO-PHY150-4 4-Channel Hybrid Combiner for 150 MHz Transmitters



### DESCRIPTION:

- ★ Combining of four transmitters or receivers on the same antenna.
- ★ Better utilisation of good antenna position.
- ★ Four antennas on the same transmitter or receiver.
- ★ The only combining option with very small TX-TX frequency spacing.
- ★ 60 W load supplied (other loads or no load as option).



### SPECIFICATIONS:

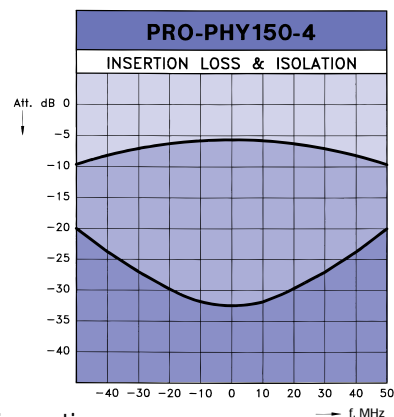
ELECTRICAL	
FILTER TYPE	Hybrid Junction
FREQUENCY	136-175 MHz (see table)
MAX. INPUT POWER	65 W per channel (max. 150 W with larger load)
INSERTION LOSS	< 6.2 dB ± 0.3 dB @ 8 MHz BW < 6.3 dB ± 0.3 dB @ 16 MHz BW
ISOLATION TX <sub>1</sub> -TX <sub>2</sub> (*see note)	> 31 dB @ 8 MHz BW > 29 dB @ 16 MHz BW
IMPEDANCE	Nom. 50 Ω
LOAD (**see note)	60 W load fitted (other ratings available)
SWR	< 1.5 with all other ports terminated with 50 Ω
MECHANICAL	
TEMP. RANGE	-30° C i +60° C
CONNECTORS	N-female (other types available)
DIMENSIONS (L x W x H)	420 x 89 (incl. conn.) x 42 mm (excl. loads)
WEIGHT	Approx. 1330 g (excl. load)

\* The isolation between the TX ports is directly dependent on the load's SWR on the antenna port. With an antenna load SWR = 1.5, the isolation between the two TX ports will be reduced to 20 dB @ 5 MHz bandwidth.

\*\* The load's SWR should be < 1.1! Each load should be able to dissipate 3/4 of the input power.  
E.g.: With 50 W input each load should be able to dissipate 50 W x 3/4 = 37 W.

### MODEL SELECTION TABLE:

MODEL	FREQ. RANGE
PRO-PHY150-4-1	136-141 MHz
PRO-PHY150-4-2	140-145 MHz
PRO-PHY150-4-3	144-149 MHz
PRO-PHY150-4-4	148-153 MHz
PRO-PHY150-4-5	152-157 MHz
PRO-PHY150-4-6	156-161 MHz
PRO-PHY150-4-7	160-165 MHz
PRO-PHY150-4-8	164-169 MHz
PRO-PHY150-4-9	168-173 MHz
PRO-PHY150-4-10	172-175 MHz



PROCOM A/S reserve the right to amend specifications without prior notice.