

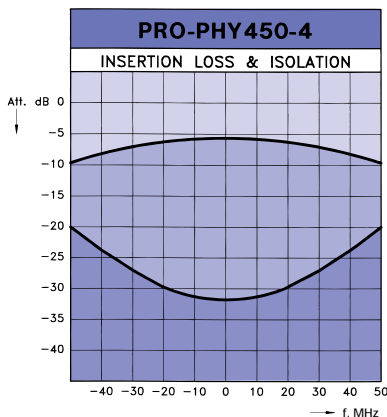
TX-COMBINERS AND HYBRIDS

PRO-PHY450-4 4-Channel Hybrid Combiner for 450 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).



MODEL SELECTION TABLE:

MODEL	FREQ. RANGE
PRO-PHY450-4-1	400-405 MHz
PRO-PHY450-4-2	404-409 MHz
PRO-PHY450-4-3	408-413 MHz
PRO-PHY450-4-4	412-417 MHz
PRO-PHY450-4-5	416-421 MHz
PRO-PHY450-4-6	420-425 MHz
PRO-PHY450-4-7	424-429 MHz
PRO-PHY450-4-8	428-433 MHz
PRO-PHY450-4-9	432-437 MHz
PRO-PHY450-4-10	436-441 MHz
PRO-PHY450-4-11	440-445 MHz
PRO-PHY450-4-12	444-449 MHz
PRO-PHY450-4-13	448-453 MHz
PRO-PHY450-4-14	452-457 MHz
PRO-PHY450-4-15	456-459 MHz
PRO-PHY450-4-16	458-463 MHz
PRO-PHY450-4-17	462-467 MHz
PRO-PHY450-4-18	466-471 MHz
PRO-PHY450-4-19	470-475 MHz

SPECIFICATIONS:

ELECTRICAL	
FILTER TYPE	Hybrid Junction
FREQUENCY	400-475 MHz (see table)
MAX. INPUT POWER	65 W per channel (max. 150 W with larger load)
INSERTION LOSS	< 6.3 dB ± 0.3 dB @ 11 MHz BW < 6.6 dB ± 0.3 dB @ 22 MHz BW
ISOLATION TX ₁ -TX ₂ (*see note)	> 32 dB @ 11 MHz BW > 28 dB @ 22 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.

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