

TX-COMBINERS AND HYBRIDS

PRO-PHY450-3 3-Channel Hybrid Combiner for 450 MHz Transmitters



DESCRIPTION:

- ★ Combining of three transmitters or receivers on the same antenna.
- ★ Better utilisation of good antenna position.
- ★ Three 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:

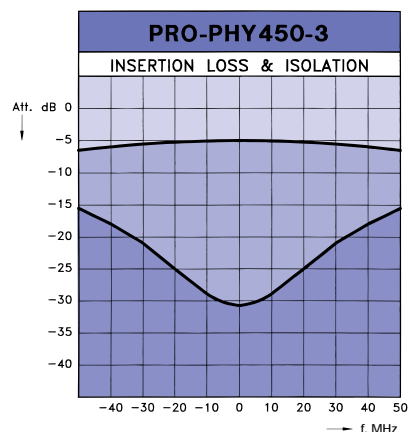
ELECTRICAL	
FILTER TYPE	Hybrid Junction
FREQUENCY	400-475 MHz (see table)
MAX. INPUT POWER	75 W per channel (max. 150 W with larger load)
INSERTION LOSS	< 5.3 dB ± 0.3 dB @ 11 MHz BW < 5.5 dB ± 0.3 dB @ 22 MHz BW
ISOLATION TX ₁ -TX ₂ (*see note)	> 26 dB @ 11 MHz BW > 25 dB @ 22 MHz BW
IMPEDANCE	Nom. 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)	400 x 89 (incl. conn.) x 42 mm (excl. loads)
WEIGHT	Approx. 1300 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 2/3 of the input power.
E.g.: With 50 W input each load should be able to dissipate 50 W x 2/3 = 33 W.

MODEL SELECTION TABLE:

MODEL	FREQ. RANGE
PRO-PHY450-3-1	395-410 MHz
PRO-PHY450-3-2	405-420 MHz
PRO-PHY450-3-3	415-430 MHz
PRO-PHY450-3-4	425-440 MHz
PRO-PHY450-3-5	435-450 MHz
PRO-PHY450-3-6	445-460 MHz
PRO-PHY450-3-7	455-470 MHz
PRO-PHY450-3-8	465-480 MHz



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