

PRO-PHY450-5

5-Channel Hybrid Combiner for 450 MHz Transmitters

DESCRIPTION

- Combining five transmitters or receivers on the same antenna.
- Better utilization of good antenna position.
- Five antennas on the same transmitter or receiver.
- The only combining option with very small TX-TX frequency spacing.
- 60 W loads included (other loads or no loads as option).



ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQ. RANGE
PRO-PHY450-5-1	210001383	380 - 400 MHz
PRO-PHY450-5-2	210001384	390 - 410 MHz
PRO-PHY450-5-3	210001385	400 - 420 MHz
PRO-PHY450-5-4	210001386	410 - 430 MHz
PRO-PHY450-5-5	210001387	420 - 440 MHz
PRO-PHY450-5-6	210001388	430 - 450 MHz
PRO-PHY450-5-7	210001389	440 - 460 MHz
PRO-PHY450-5-8	210001390	450 - 470 MHz
PRO-PHY450-5-9	210001391	460 - 480 MHz

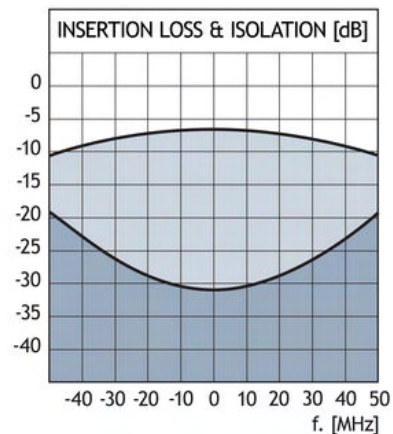
SPECIFICATIONS

ELECTRICAL	
FILTER TYPE	Hybrid Junction
FREQUENCY	380 - 480 MHz (see table)
MAX. INPUT POWER	65 W per channel (max. 150 W with larger load)
INSERTION LOSS	< 7.5 dB ± 0.3 dB @ 11 MHz BW < 7.8 dB ± 0.3 dB @ 22 MHz BW
ISOLATION TX ₁ -TX ₂ (*see note)	> 30 dB @ 11 MHz BW > 28 dB @ 22 MHz BW
IMPEDANCE	Nom. 50 Ω
LOAD	60 W load fitted (other ratings available)
SWR	< 1.5 with all other ports terminated with 50 Ω
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
CONNECTORS	N-female (other types as option)
DIMENSIONS (L x W x H)	510 x 89 (incl. conn.) x 42 mm (excl. load)
WEIGHT	Approx. 1625 g (excl. load)

*The isolation between the TX ports is directly dependent on the terminating 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 SWR of the loads should be < 1.1! Each load should be able to dissipate 4/5 of the input power.

E.g.: With 50 W input, each load should be able to dissipate 50 W x 4/5 = 40 W.



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

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