PRO-PHY150-5

5-Channel Hybrid Combiner for 150 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 supplied (other loads or no loads as option).

SPECIFICATIONS

ELECTRICAL	
MODEL	PRO-PHY150-5
FILTER TYPE	Hybrid Junction
FREQUENCY	136 - 175 MHz (see table)
MAX. INPUT POWER	75 W per channel (max. 150 W with larger load)
INSERTION LOSS	< 8.2 dB ± 0.5 dB @ 8 MHz BW < 8.3 dB ± 0.5 dB @ 16 MHz BW
ISOLATION TX $_1$-TX $_2$ (*see note)	> 32 dB @ 8 MHz BW > 27 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 → +60° C
CONNECTORS	N-female (other types as option)
DIMENSIONS (L x W x H)	420 x 89(incl. conn.) x 42 mm (excl. load)
WEIGHT	Approx. 1600 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.

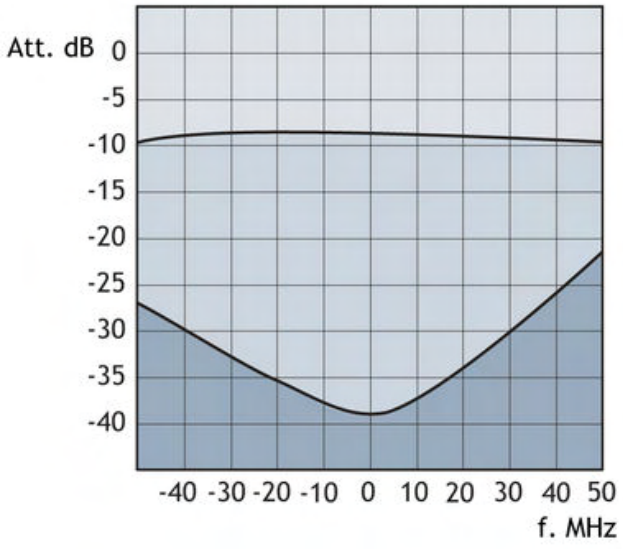
**The SWR of the loads should be < 1.1! Each load should be able to dissipate 4/5 of the input power.

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

ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQ. RANGE
PRO-PHY150-5-1	210 001 231	136 - 141 MHz
PRO-PHY150-5-2	210 001 232	140 - 145 MHz
PRO-PHY150-5-3	210 001 233	144 - 149 MHz
PRO-PHY150-5-4	210 001 234	148 - 153 MHz
PRO-PHY150-5-5	210 001 235	152 - 157 MHz
PRO-PHY150-5-6	210 001 236	156 - 161 MHz
PRO-PHY150-5-7	210 001 129	160 - 165 MHz
PRO-PHY150-5-8	210 001 131	164 - 169 MHz
PRO-PHY150-5-9	210 001 237	168 - 173 MHz
PRO-PHY150-5-10	210 001 238	172 - 175 MHz

INSERTION LOSS & ISOLATION



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

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