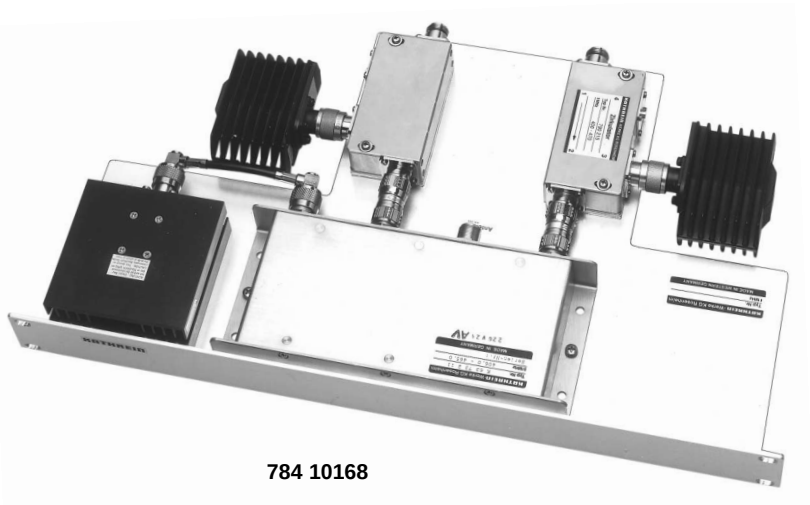
Hybrid Transmitter Combiner 380 … 430 MHz (TETRA, TETRAPOL)

KATHREIN
Antennen · Electronic

The hybrid transmitter combiner allows two or more transmitters to be combined to a common output.

Special features:
– very small spacing of the transmitting frequencies, down to adjacent channel spacing,
– variable transmitter frequencies,
– small dimensions.

Design:
The hybrid transmitter combiner has two, three, four or five inputs and one output. For combining transmitters a hybrid ring junction a decoupled power splitter is used as hybrid or couplers depending on the number of inputs. In every transmitting path a wide band dual circulator is inserted, which causes very high isolation. This effectively suppresses intermodulation products. The absorbers are dimensioned for a possibly occurring total reflection at the output.



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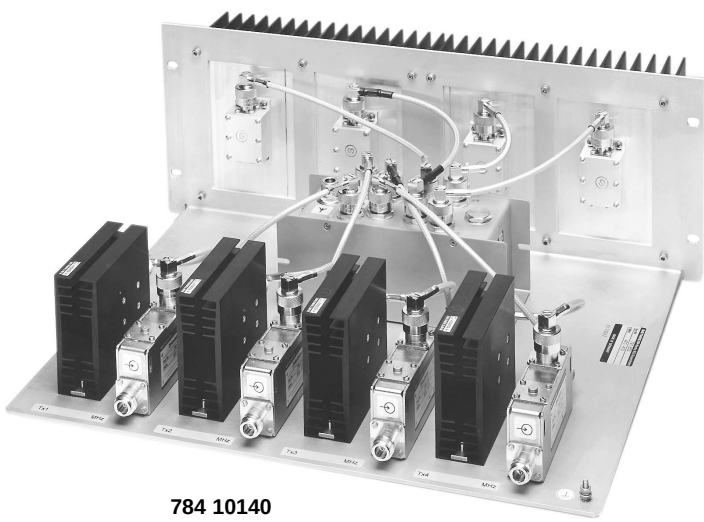

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Technical Data

Type No.	Inputs	Insertion loss	Dimensions 19″ drawer height	Dimensions 19″ drawer plug-in depth	Input power per input	Packing size
784 10168	2	< 3.9 dB	1 hu* = 44 mm	300 mm	25 W	535 mm x 120 mm x 435 mm
784 10167	2	< 3.9 dB	4 hu* = 177 mm	350 mm	100 W	535 mm x 260 mm x 490 mm
784 10166	3	< 6.3 dB	4 hu* = 177 mm	350 mm	100 W	535 mm x 260 mm x 490 mm
784 10140	4	< 7.3 dB	4 hu* = 177 mm	350 mm	100 W	535 mm x 260 mm x 490 mm
784 10165	5	< 8.3 dB	4 hu* = 177 mm	350 mm	100 W	535 mm x 260 mm x 490 mm

Frequency range	380 … 430 MHz
Min. frequency spacing	0 MHz
Isolation	> 70 dB
Impedance	50 Ω
VSWR	< 1.2
Connectors	N female
Colour	Front panel: Grey (RAL 7032)

* hu = height unit

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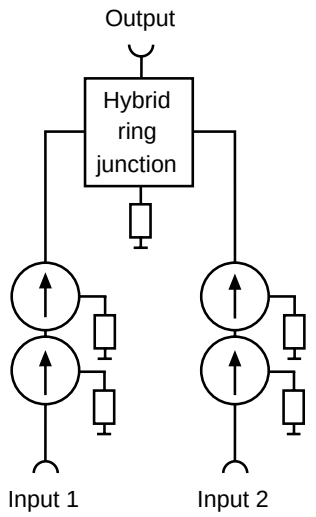

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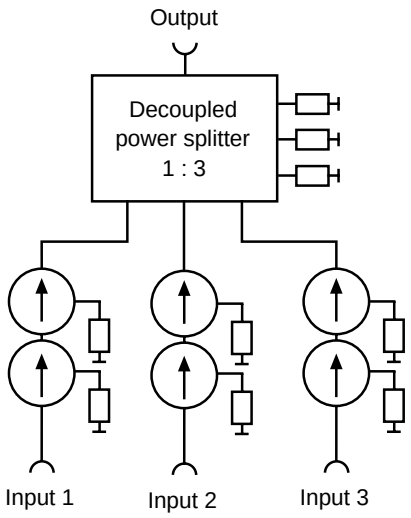

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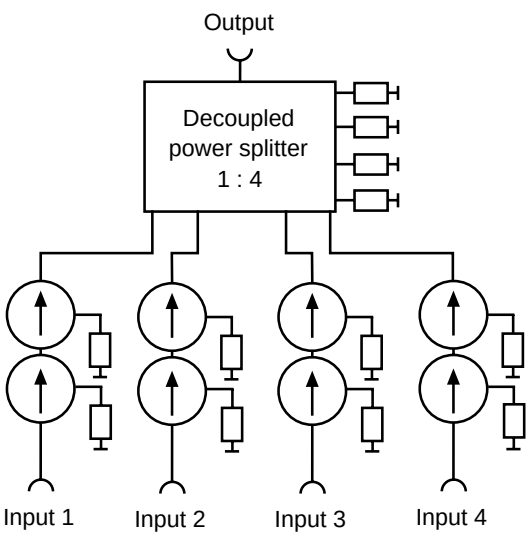

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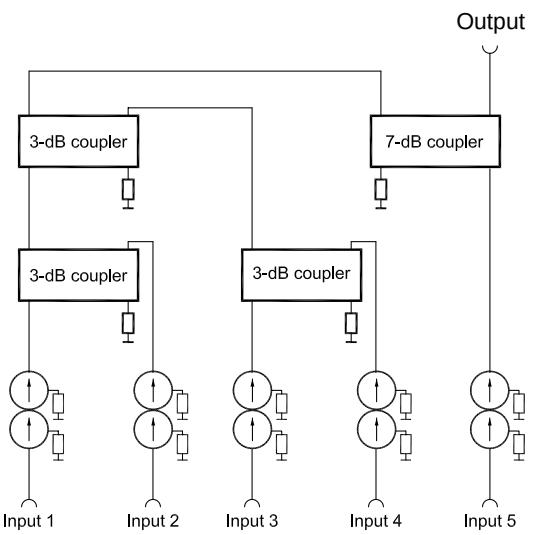

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936.2762 Subject to alteration.

Internet: http://www.kathrein.de

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