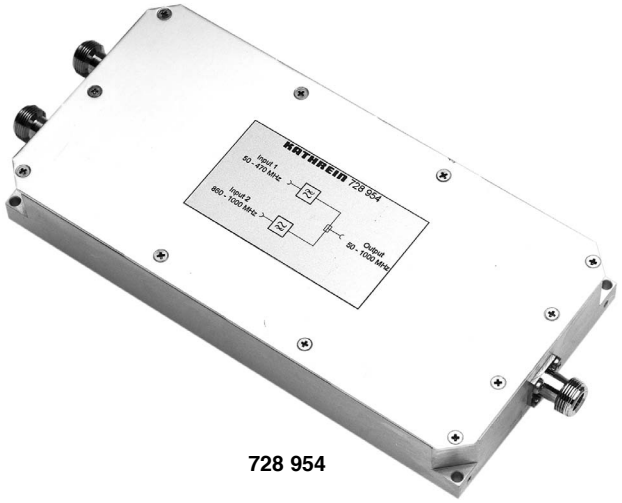
Multiband Combiner
68 – 470 / 870 – 970 MHz

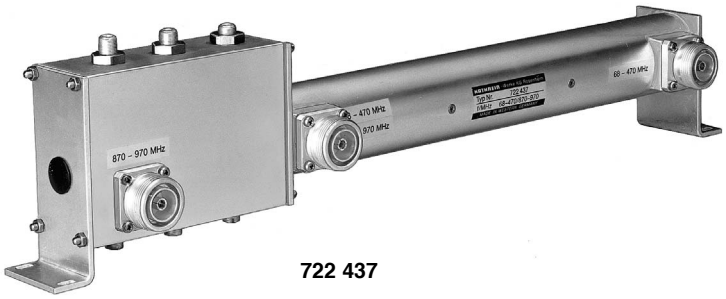
KATHREIN
Antennen · Electronic

The multiband combiners can be used:
- to combine several transmitters and receivers in two different frequency bands to a common feeder cable, to a broad-band antenna, or to a broad-band radiating cable,
- and, in the reverse operating mode, to separate several transmission or receiving frequencies into two frequency bands.

Design and construction:
The multiband combiners 722 437 and 722 440 consists of a coaxial low-pass filter and a 3-cavity band-pass filter with λ/4 resonators.
The multiband combiners 728 954 and 791 463 consist of a low-pass and high-pass filter in printed circuit technology.



728 954



722 437

Technical Data

Type No.	728 954	791 463	722 437	722 440
Frequency range Input 1 Input 2	68 – 470 MHz 870 – 970 MHz		68 – 470 MHz 870 – 970 MHz	
Insertion loss 68 – 470 MHz 870 – 970 MHz	< 0.5 dB < 0.5 dB		< 0.5 dB < 0.5 dB	
Isolation	> 45 dB		> 38 dB	
VSWR	< 1.2		< 1.5	
Impedance	50 Ω		50 Ω	
Input power 68 – 470 MHz 870 – 970 MHz	**< 50 W** **< 50 W**		**< 500 W** **< 300 W**	
Temperature range	–20 … +70 °C		–20 … +70 °C	
Connectors	N female		7-16 female	
Version	**Without** Weather protective case	**With** Weather protective case	**Without** Weather protective case	**With** Weather protective case
Mounting	With 4 screws (max. 3 mm diameter)	To tubular masts, 60 ... 320 mm diameter with supplied non-corrosive clamp strap	With 4 screws (max. 4 mm diameter)	With 4 screws (max. 12 mm diameter)
Weight	0.8 kg	3 kg	3 kg	20 kg
Packing size	Approx. 280 x 55 x 125 mm	Approx. 540 x 120 x 260 mm	Approx. 145 x 145 x 625 mm	Approx. 970 x 240 x 410 mm
Dimensions (w x h x d)	269 x 32 x 111.6 mm (including connectors)	400 x 60 x 172 mm (including connectors)	120 x 76 x 520 mm (including connectors)	793 x 218 x 380 mm (including connectors)

936.2325/c Subject to alteration.

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Multiband Combiner
68 – 470 / 870 – 970 / 1600 – 2000 MHz

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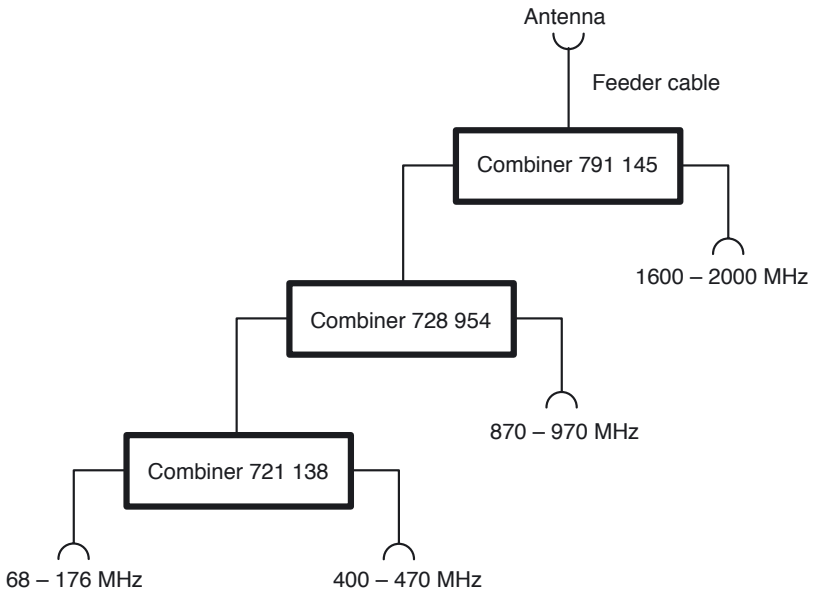
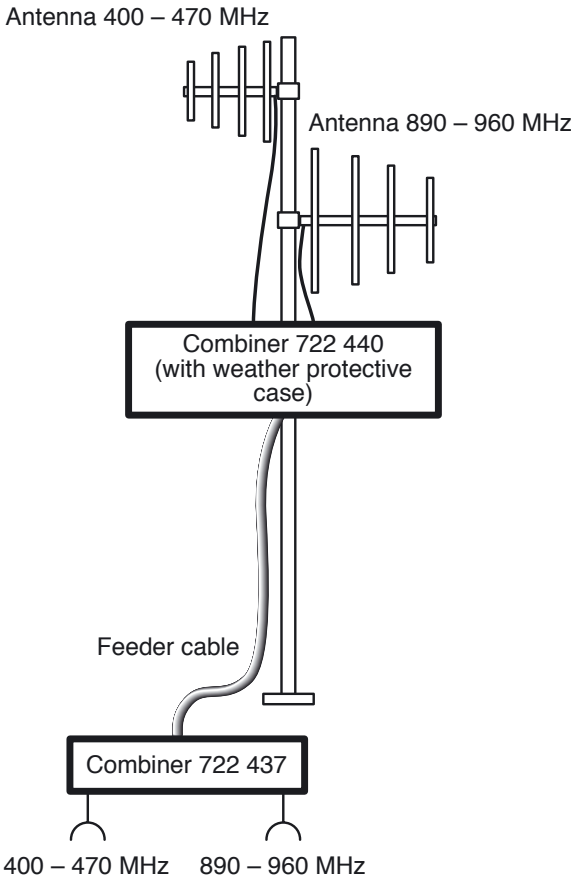


Cascaded multiband combiners



Example for the combining of 400 MHz and 900 MHz transmitters/receivers to a common feeder cable

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Internet: http://www.kathrein.de

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