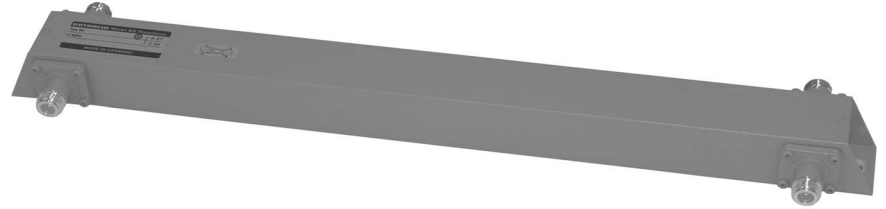
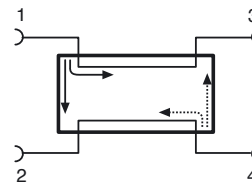


10-dB Coupler (90° Hybrid) 100 – 150 MHz

The **10-dB coupler** is used as a decoupled splitter for power splitting purposes at a 1 : 9 ratio. An effective power entering at e.g. port 1 is divided between the ports 2 and 3 at a ratio of 1 : 9. Thus 1/10 of the input power (attenuation: 10 dB) is available at port 2 and 9/10 of the input power is available at port 3. Port 4 is decoupled and remains free of power if the ports 2 and 3 are ideally matched. In practice an absorber of suitable power at port 4 is to be planned in accordance with the mismatch of ports 2 and 3.



Decoupled combining can be achieved via the diagonally opposite ports 2 and 3 respectively 1 and 4.



Technical Data

Type No.	784 10025
Connectors	N female
Frequency range	100 – 150 MHz
Attenuation 1 ↔ 3 (4 ↔ 2)	0.5 ± 0.2 dB
Attenuation 1 ↔ 2 (4 ↔ 3)	10 ± 0.5 dB
Directivity	> 30 dB
VSWR	< 1.1
Impedance	50 Ω
Max. power	500 W
Material	Brass, silver-plated
Colour	Grey
Installation	With 2 screws (max. 6 mm diameter)
Weight	1.6 kg
Packing size	931 mm x 54 mm x 126 mm
Dimensions (w x h x d)	625 mm x 40 mm x 95 mm (incl. connectors)

Note: VSWR and attenuation are measured when the remaining ports are terminated with 50-Ω loads.

936.A2517/a Subject to alteration.