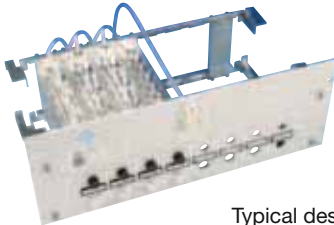
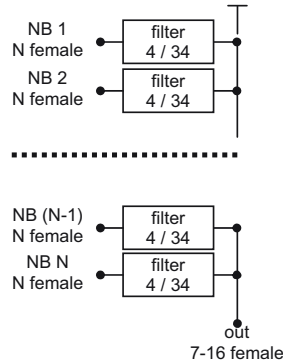


## UHF LOW POWER MANIFOLD COMBINERS

- 4 RU compact design as 19" slide-in unit
- suitable for analogue and digital TV
- applicable within the whole UHF range
- for 6, 7 and 8 MHz channel bandwidth
- temperature compensated



Typical design



Part number	BN 57 45 86		BN 57 45 87		BN 57 45 88		BN 57 45 89	
Frequency range	470 - 860 MHz							
Channel spacing	≥ 2 (1 channel available on request)							
<b>Narrow band inputs</b>	N female							
Filter type integrated cavities/size	4/34 ≡ BN 616507							
Temperature stability	≤ 10 kHz / K							
Harmonics attenuation	≥ 50 dB for f ≤ 1500 MHz							
DTV Mask filtering	no							
Average input power / channel width	<b>50 W</b> per input / 8 MHz <b>45 W</b> per input / 7 MHz <b>40 W</b> per input / 6 MHz							
Number of inputs	6		7		8		9	
Insertion loss (varying with sequence) AS4054 for 8 MHz (Û/U <sub>rms</sub> =13 dB)	f <sub>0</sub>	0.7 - 1.15 dB	f <sub>0</sub>	0.7 - 1.2 dB	f <sub>0</sub>	0.7 - 1.3 dB	f <sub>0</sub>	0.7 - 1.4 dB
	f <sub>0</sub> ± 3.885	0.8 - 1.25 dB	f <sub>0</sub> ± 3.885	0.8 - 1.3 dB	f <sub>0</sub> ± 3.885	0.8 - 1.4 dB	f <sub>0</sub> ± 3.885	0.8 - 1.5 dB
	f <sub>0</sub> ± 12.0	≥ 17 dB	f <sub>0</sub> ± 12.0	≥ 17 dB	f <sub>0</sub> ± 12.0	≥ 17 dB	f <sub>0</sub> ± 12.0	≥ 17 dB
Group delay variation	Δτ ≤ 100 ns							
Insertion loss (varying with sequence) AS4046 for 7 MHz (Û/U <sub>rms</sub> =13 dB)	f <sub>0</sub>	0.75 - 1.2 dB	f <sub>0</sub>	0.75 - 1.25 dB	f <sub>0</sub>	0.75 - 1.35 dB	f <sub>0</sub>	0.75 - 1.45 dB
	f <sub>0</sub> ± 3.325	0.85 - 1.3 dB	f <sub>0</sub> ± 3.325	0.85 - 1.35 dB	f <sub>0</sub> ± 3.325	0.85 - 1.45 dB	f <sub>0</sub> ± 3.325	0.85 - 1.45 dB
	f <sub>0</sub> ± 10.5	≥ 20 dB	f <sub>0</sub> ± 10.5	≥ 20 dB	f <sub>0</sub> ± 10.5	≥ 20 dB	f <sub>0</sub> ± 10.5	≥ 20 dB
Group delay variation	Δτ ≤ 65 ns							
Insertion loss (varying with sequence) AS4029 for 6 MHz (Û/U <sub>rms</sub> =11 dB)	f <sub>0</sub>	0.8 - 1.25 dB	f <sub>0</sub>	0.8 - 1.3 dB	f <sub>0</sub>	0.8 - 1.4 dB	f <sub>0</sub>	0.8 - 1.5 dB
	f <sub>0</sub> ± 2.885	0.9 - 1.35 dB	f <sub>0</sub> ± 2.885	0.9 - 1.4 dB	f <sub>0</sub> ± 2.885	0.9 - 1.5 dB	f <sub>0</sub> ± 2.885	0.9 - 1.6 dB
	f <sub>0</sub> ± 9.0	≥ 25 dB	f <sub>0</sub> ± 9.0	≥ 25 dB	f <sub>0</sub> ± 9.0	≥ 25 dB	f <sub>0</sub> ± 9.0	≥ 25 dB
Group delay variation	Δτ ≤ 30 ns							
<b>Output</b>	7-16 female							
Average output power	≤ 450 W							
Peak output voltage	≤ 2 kV							
Isolation between inputs	≥ 25 dB							
VSWR (one WB channel)	≤ 1.2							
Dimensions (L x W x H) mm	340 x 483 x 177 (4RU)							
Weight	≈ 12 kg		≈ 13 kg		≈ 15 kg		≈ 18 kg	
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“							