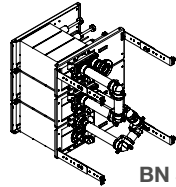
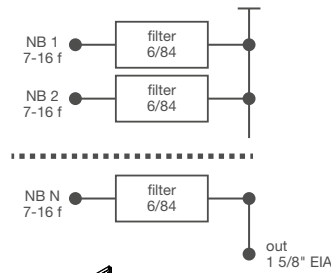
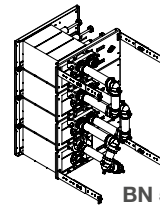


## UHF Manifold Combiners

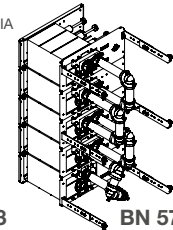
- Compact design as 19" slide-in unit
- Integrated mask filters for DTV
- Applicable within the whole UHF range
- For 6, 7 and 8 MHz channel bandwidth
- Temperature compensated



BN 574913C0003



BN 574914C0003



BN 574911C0003

Multi Channel Combiners

Part Number	BN 574912C0003 2 Inputs	BN 574913C0003 3 Inputs	BN 574914C0003 4 Inputs	BN 574911C0003 5 Inputs	BN 574960C0003 6 Inputs
Frequency range	470 - 860 MHz				
<b>Narrowband input</b>	7-16 female				
Filter type integrated cavities/size	6/84 ≡ BN 616402				
Temperature stability	≤ 2 kHz / K				
Harmonics attenuation	≥ 50 dB for f ≤ 950 MHz				
<b>Standard</b>	DVB-T @ 8 MHz, (Û/U <sub>rms</sub> =13 dB)				
Average input power/channel width	<b>750 W per input for non-adjacent channels or 600 W for adjacent channels</b>				
Channel spacing	≥ 0 (pairs of adjacent channels possible)				
Tuning instruction AS6186	f <sub>0</sub> 0.5-0.6 dB	f <sub>0</sub> 0.5-0.8 dB	f <sub>0</sub> 0.5-1.0 dB	f <sub>0</sub> 0.5-1.1 dB	f <sub>0</sub> 0.5-1.2 dB
Insertion loss for non-adjacent channels	f <sub>0</sub> ± 3.805 1.2-1.5 dB	f <sub>0</sub> ± 3.805 1.2-1.6 dB	f <sub>0</sub> ± 3.805 1.2-1.9 dB	f <sub>0</sub> ± 3.805 1.3-2.0 dB	f <sub>0</sub> ± 3.805 1.2-2.1 dB
	f <sub>0</sub> ± 3.885 1.3-1.6 dB	f <sub>0</sub> ± 3.885 1.4-1.7 dB	f <sub>0</sub> ± 3.885 1.4-2.0 dB	f <sub>0</sub> ± 3.885 1.4-2.1 dB	f <sub>0</sub> ± 3.885 1.4-2.2 dB
Mask filtering	f <sub>0</sub> ± 4.2 ≥ 4 dB f <sub>0</sub> ± 6 ≥ 20 dB f <sub>0</sub> ± 12 ≥ 40 dB				
Group delay variation	Δτ ≤ 350 ns (≤ 700 ns at adjacent channel slopes)				
Isolation between inputs	≥ 35 dB (for adjacent channels: ≥ 26 dB <sub>rms</sub> in channel and 12 dB at adjacent channel slopes)				
<b>Standard</b>	ISDB-T @ 6 MHz, (Û/U <sub>rms</sub> =13 dB)				
Average input power/channel width	<b>600 W per input for non-adjacent channels or 500 W for adjacent channels</b>				
Channel spacing	≥ 0 (pairs of adjacent channels possible)				
Tuning instruction AS6182	f <sub>0</sub> 0.6-0.8 dB	f <sub>0</sub> 0.6-0.9 dB	f <sub>0</sub> 0.6-1.1 dB	f <sub>0</sub> 0.6-1.2 dB	f <sub>0</sub> 0.6-1.3 dB
Insertion loss for non-adjacent channels	f <sub>0</sub> ± 2.79 1.6-2.2 dB	f <sub>0</sub> ± 2.79 1.7-2.3 dB	f <sub>0</sub> ± 2.79 1.7-2.5 dB	f <sub>0</sub> ± 2.79 1.6-2.6 dB	f <sub>0</sub> ± 2.79 1.6-2.7 dB
			f <sub>0</sub> ± 3 ≥ 4 dB f <sub>0</sub> ± 3.15 ≥ 8 dB f <sub>0</sub> ± 4.5 ≥ 23 dB f <sub>0</sub> ± 9 ≥ 50 dB f <sub>0</sub> ± 15 ≥ 50 dB		
Mask filtering	f <sub>0</sub> ± 3 ≥ 4 dB f <sub>0</sub> ± 3.15 ≥ 8 dB f <sub>0</sub> ± 4.5 ≥ 23 dB f <sub>0</sub> ± 9 ≥ 50 dB f <sub>0</sub> ± 15 ≥ 50 dB				
Group delay variation	Δτ ≤ 500 ns (≤ 800 ns at adjacent channel slopes)				
Isolation between inputs	≥ 35 dB (for adjacent channels: ≥ 30 dB <sub>rms</sub> in channel and 20 dB at adjacent channel slopes)				
<b>Standard</b>	ATSC 1.0 @ 6 MHz, (Û/U <sub>rms</sub> =11 dB)				
Average input power/channel width	<b>600 W per input for non-adjacent channels or 500 W for adjacent channels</b>				
Channel spacing	≥ 0 (pairs of adjacent channels possible)				
Tuning instruction AS6156	f <sub>0</sub> 0.7-0.9 dB	f <sub>0</sub> 0.7-1.0 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
Insertion loss for non-adjacent channels	f <sub>0</sub> ± 2.69 1.1-1.6 dB	f <sub>0</sub> ± 2.69 1.2-1.7 dB	f <sub>0</sub> ± 2.69 1.2-1.8 dB	f <sub>0</sub> ± 2.69 1.2-1.9 dB	f <sub>0</sub> ± 2.69 1.2-2.0 dB
	f <sub>0</sub> ± 3.00 1.9-2.5 dB	f <sub>0</sub> ± 3.00 1.9-2.6 dB	f <sub>0</sub> ± 3.00 1.9-2.7 dB	f <sub>0</sub> ± 3.00 1.9-2.8 dB	f <sub>0</sub> ± 3.00 1.9-2.9 dB
Mask filtering	f <sub>0</sub> ± 3.25 ≥ 4 dB f <sub>0</sub> ± 3.5 ≥ 8 dB f <sub>0</sub> ± 4 ≥ 15 dB f <sub>0</sub> ± 6 ≥ 40 dB f <sub>0</sub> ± 9 ≥ 65 dB				
Group delay variation	Δτ ≤ 200 ns (≤ 500 ns at adjacent channel slopes)				
Isolation between inputs	≥ 35 dB (for adjacent channels: ≥ 28 dB <sub>rms</sub> in channel and 13 dB at adjacent channel slopes)				
<b>Output</b>	1 5/8" SMS clamp				
VSWR	≤ 1.17 (≤ 1.2 for adjacent channels)				
Dimensions (L x W x H) mm	640 x 483 x 354 (8RU)	640 x 483 x 532 (12RU)	640 x 483 x 809 (16RU)	640 x 483 x 888 (20RU)	640x483x1064(24RU)
Weight	≈ 26 kg	≈ 38 kg	≈ 51 kg	≈ 64 kg	≈ 76 kg
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“.				