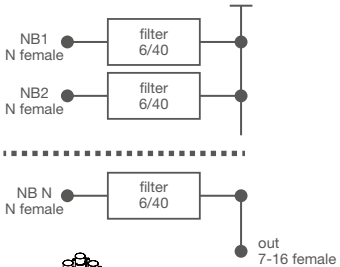
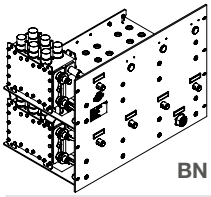
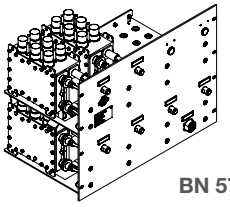
UHF Manifold Combiners

- 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 575565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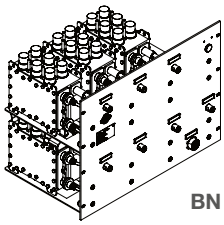
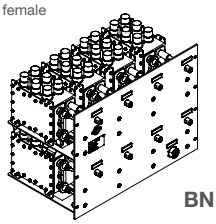

BN 575567


BN 575568

Part Number	BN 575565 - 5 Inputs	BN 575566 - 6 Inputs	BN 575567 - 7 Inputs	BN 575568 - 8 Inputs
Frequency range	470 - 860 MHz			
Narrowband input	N female			
Filter type integrated cavities/size	**6/40 ≡ BN 616660**			
Temperature stability	≤ 2 kHz / K			
Harmonics attenuation	≥ 60 dB for f ≤ 1400 MHz			
Standard	DVB-T @ 8 MHz, ($\hat{U}/U_{rms}$=13 dB)			
Average input power/channel width	**130 W per input for non-adjacent channels or 100 W for adjacent channels**			
Channel spacing	≥ 0 (pairs of adjacent channels possible)			
Tuning instruction AS6361 Insertion loss for non-adjacent channels	f_0 0.9-1.3 dB $f_0 \pm 3.805$ 2.0-2.8 dB $f_0 \pm 3.885$ 2.3-3.1 dB	f_0 0.9-1.3 dB $f_0 \pm 3.805$ 2.0-2.8 dB $f_0 \pm 3.885$ 2.3-3.1 dB	f_0 0.9-1.4 dB $f_0 \pm 3.805$ 2.0-2.9 dB $f_0 \pm 3.885$ 2.3-3.2 dB	f_0 0.9-1.5 dB $f_0 \pm 3.805$ 2.0-3.0 dB $f_0 \pm 3.885$ 2.3-3.3 dB
Mask filtering	$f_0 \pm 4.2$ ≥ 4 dB $f_0 \pm 6$ ≥ 20 dB $f_0 \pm 12$ ≥ 40 dB			
Group delay variation	Δτ ≤ 350 ns (≤ 500 ns at adjacent channel slopes)			
Isolation between inputs	≥ 35 dB (for adjacent channels: ≥ 30 dBrms in channel and 15 dB at adjacent channel slopes)			
Standard	ISDB-T @ 6 MHz, ($\hat{U}/U_{rms}$=13 dB)			
Average input power/channel width	**100 W per input for non-adjacent channels or 75 W for adjacent channels**			
Channel spacing	≥ 0 (pairs of adjacent channels possible)			
Tuning instruction AS6368 Insertion loss for non-adjacent channels	f_0 1.1-1.7 dB $f_0 \pm 2.79$ 2.7-3.6 dB	f_0 1.1-1.7 dB $f_0 \pm 2.79$ 2.7-3.6 dB	f_0 1.1-1.8 dB $f_0 \pm 2.79$ 2.7-3.7 dB	f_0 1.1-1.9 dB $f_0 \pm 2.79$ 2.7-3.8 dB
Mask filtering	$f_0 \pm 3$ ≥ 4 dB $f_0 \pm 3.15$ ≥ 8 dB $f_0 \pm 4.5$ ≥ 22 dB $f_0 \pm 9$ ≥ 50 dB $f_0 \pm 15$ ≥ 50 dB			
Group delay variation	Δτ ≤ 350 ns			
Isolation between inputs	≥ 35 dB (for adjacent channels: ≥ 30 dBrms in channel and 15 dB at adjacent channel slopes)			
Standard	ATSC 1.0 @ 6 MHz, ($\hat{U}/U_{rms}$=11 dB)			
Average input power/channel width	**100 W per input for non-adjacent channels or 75 W for adjacent channels**			
Channel spacing	≥ 0 (pairs of adjacent channels possible)			
Tuning instruction AS6362 Insertion loss for non-adjacent channels	f_0 1.3-2.1 dB $f_0 \pm 2.69$ 2.3-3.0 dB	f_0 1.3-2.1 dB $f_0 \pm 2.69$ 2.3-3.0 dB	f_0 1.3-2.2 dB $f_0 \pm 2.69$ 2.3-3.1 dB	f_0 1.3-2.3 dB $f_0 \pm 2.69$ 2.3-3.2 dB
Mask filtering	$f_0 \pm 3.25$ ≥ 4 dB $f_0 \pm 3.5$ ≥ 8 dB $f_0 \pm 4$ ≥ 15 dB $f_0 \pm 6$ ≥ 40 dB $f_0 \pm 9$ ≥ 65 dB			
Group delay variation	Δτ ≤ 200 ns			
Isolation between inputs	≥ 35 dB (for adjacent channels: ≥ 30 dBrms in channel and 15 dB at adjacent channel slopes)			
Output	7-16 female			
Average output power	≤ 600 W			
Peak output voltage	≤ 2 kV			
VSWR	≤ 1.2			
Dimensions (L x W x H) mm	300 x 483 x 355 (8RU)			
Weight	≈ 21 kg	≈ 25 kg	≈ 29 kg	≈ 32 kg
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“.			