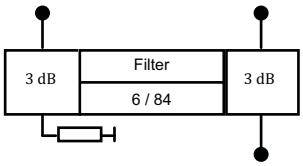
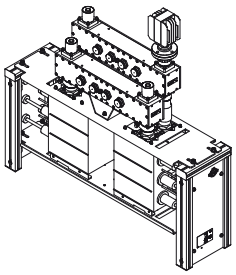
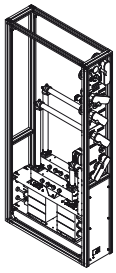
CCS UHF CIB COMBINERS

- **CCS** compact design
- integrated mask filters for DTV
- adjacent channel operation
- for 6, 7 and 8 MHz channel bandwidth
- temperature compensated
- tuneable within the whole UHF range





BN 57 46 76 C0002



BN 57 46 76 inside switching rack

Part number	**BN 57 46 75 C0005**	**BN 57 46 76 C0002**
Frequency range	470 - 860 MHz	
Channel spacing	≥ 0	
Narrow band input	7-16 female	1 5/8" SMS unflanged
Filter type integrated cavities/size	**6/84 ≡ BN616402**	
Temperature stability	≤ 2 kHz / K	
Harmonics attenuation	≥ 50 dB for f ≤ 950 MHz	
DTV Mask filtering	DVB-T @ 8 MHz ($\hat{U}/U_{rms}$=13 dB) ISDB-T @ 6 MHz ($\hat{U}/U_{rms}$=13 dB)	ATSC @ 6 MHz ($\hat{U}/U_{rms}$=11 dB)
Average input power	**≤ 1.5 kW** **≤ 1.2 kW**	**≤ 1.2 kW**
Tuning instruction	AS6186 AS6182	AS6156
Insertion loss & Mask filtering (alternative tuning on request)	470 MHz / 860 MHz f_0 ≤ 0.5 dB / ≤ 0.6 dB $f_0 \pm 3.805$ ≤ 1.2 dB / ≤ 1.5 dB $f_0 \pm 3.885$ ≤ 1.3 dB / ≤ 1.6 dB $f_0 \pm 4.2$ ≥ 4 dB $f_0 \pm 6$ ≥ 20 dB $f_0 \pm 12$ ≥ 40 dB 470 MHz / 803 MHz f_0 ≤ 0.6 dB / ≤ 0.8 dB $f_0 \pm 2.79$ ≤ 1.6 dB / ≤ 2.2 dB $f_0 \pm 3.0$ ≥ 4 dB $f_0 \pm 3.15$ ≥ 8 dB $f_0 \pm 4.5$ ≥ 23 dB $f_0 \pm 9$ ≥ 48 dB $f_0 \pm 15$ ≥ 50 dB	470 MHz / 803 MHz f_0 ≤ 0.7 dB / ≤ 0.9 dB $f_0 \pm 2.69$ ≤ 1.1 dB / ≤ 1.55 dB $f_0 \pm 3.0$ ≤ 1.9 dB / ≤ 2.45 dB $f_0 \pm 3.25$ ≥ 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 ≤ 330 ns Δτ ≤ 500 ns	Δτ ≤ 200 ns
Wide band input	1 5/8" SMS unflanged	
Average input power	≤ 7 kW Attention: The power at the wide band input must be reduced by 50 % of the power fed into the narrow band input	
DTV Mask filtering	no	
Insertion loss	≤ 0.1 dB (non adjacent)	
Output	1 5/8" SMS unflanged	
Average output power	≤ 7 kW	
Peak output voltage	≤ 8.5 kV	
Isolation between inputs	≥ 35 dB	
VSWR (one WB channel)	≤ 1.06	
Dimensions (L x W x H) mm	900 x 226 x 665	900 x 226 x 965
Weight	≈ 30 kg	≈ 40 kg
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“	