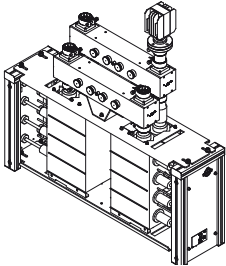
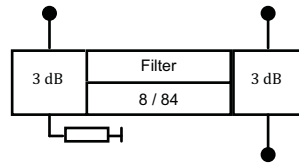
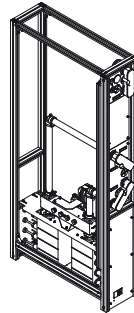


CCS UHF CIB COMBINERS

- **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 78 C0002



BN 57 46 77 inside switching rack

Part number	BN 57 46 77 C0005		BN 57 46 78 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	8/84 ≡ BN616403					
Temperature stability	≤ 2 kHz / K					
Harmonics attenuation	≥ 50 dB for f ≤ 950 MHz					
DTV Mask filtering	DVB-T @ 8 MHz ($\dot{U}/U_{rms}=13$ dB)	ISDB-T @ 6 MHz ($\dot{U}/U_{rms}=13$ dB)	ATSC @ 6 MHz ($\dot{U}/U_{rms}=11$ dB)			
Average input power	≤ 1.5 kW		≤ 1.2 kW			
Tuning instruction	AS8068		AS8091 AS8051			
Insertion loss & Mask filtering (alternative tuning on request)	470 MHz	860 MHz	470 MHz	803 MHz	470 MHz	803 MHz
	f_0	≤ 0.6 dB ≤ 0.75 dB	f_0	≤ 0.7 dB ≤ 1.3 dB	f_0	≤ 0.9 dB ≤ 1.3 dB
	$f_0 \pm 3.805$	≤ 1.8 dB ≤ 2.2 dB	$f_0 \pm 2.79$	≤ 1.8 dB ≤ 3.1 dB	$f_0 \pm 2.69$	≤ 1.9 dB ≤ 2.7 dB
	$f_0 \pm 3.885$	≤ 2.1 dB ≤ 2.6 dB	$f_0 \pm 3.15$	≥ 15 dB	$f_0 \pm 3.0$	≤ 3 dB
	$f_0 \pm 4.2$	≥ 15 dB	$f_0 \pm 4.5$	≥ 30 dB	$f_0 \pm 3.25$	≥ 18 dB
	$f_0 \pm 6$	≥ 40 dB	$f_0 \pm 9$	≥ 55 dB	$f_0 \pm 9$	≥ 64 dB
	$f_0 \pm 12$	≥ 55 dB				
Group delay variation	$\Delta\tau \leq 600$ ns		$\Delta\tau \leq 500$ ns		$\Delta\tau \leq 400$ ns	
Wide band input	1 5/8" SMS unflanged					
Average input power	≤ 7 kW					
DTV Mask filtering	Attention: The power at the wide band input must be reduced by 50 % of the power fed into the narrow band input					
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	≈ 35 kg		≈ 45 kg			
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“					