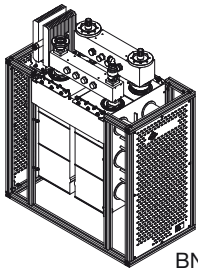
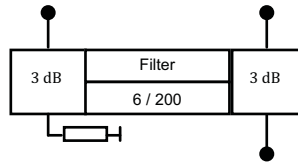
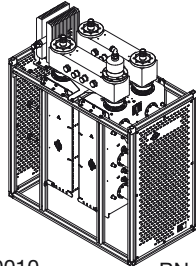


CCS UHF CIB COMBINERS

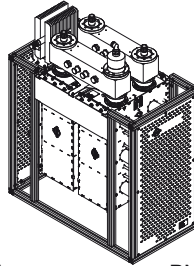
- CCS compact design
- integrated mask filters for ATSC
- for 6 MHz channel bandwidth
- temperature compensated
- tuneable within the whole UHF range
- liquid cooled filter



BN 57 49 70 A0010



BN 57 46 71 A0010



BN 57 46 70 A0010

Part number Cooling	BN 57 49 70 A0010 natural cooling	BN 57 46 71 A0010 natural cooling	BN 57 46 70 A0010 liquid cooling
Frequency range	470 - 860 MHz		
Channel spacing	≥ 1		
Narrow band input	1 5/8" EIA	3 1/8" EIA male	3 1/8" EIA male
Filter type integrated cavities/size	6/200 ≡ BN 616571		
Temperature stability	≤ 2 kHz / K		
Harmonics attenuation	≥ 50 dB for f ≤ 860 MHz		
DTV Mask filtering	ATSC @ 6 MHz ($\dot{U}/U_{rms}=13$ dB)		
Average input power The input power of liquid cooled filters must be reduced if installed more than 500 m above sea level.	≤ 7 kW	≤ 9 kW	≤ 20 kW @ 0 - 600m ≤ 18 kW @ 1200 m ≤ 16 kW @ 2000 m ≤ 14 kW @ 2800 m ≤ 12 kW @ 3400 m ≤ 10 kW @ 4000 m
Tuning instruction	AS6082		
Insertion loss & Mask filtering (alternative tuning on request)	470 MHz 860 MHz f_0 ≤ 0.5 dB ≤ 0.70 dB $f_0 \pm 2.69$ ≤ 0.7 dB ≤ 0.90 dB $f_0 \pm 3$ ≤ 1.5 dB ≤ 1.85 dB $f_0 \pm 4$ ≥ 15 dB $f_0 \pm 6$ ≥ 40 dB $f_0 \pm 9$ ≥ 65 dB		
Group delay variation	$\Delta\tau \leq 200$ ns		
Wide band input	3 1/8" EIA male		
Average input power	≤ 17.5 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	3 1/8" EIA male		
Peak output voltage	≤ 12.5 kV		
Average output power	≤ 23.0 kW		
Isolation between inputs	≥ 35 dB		
VSWR (one WB channel)	≤ 1.06		
Dimensions (L x W x H) mm	900 x 480 x 1200	900 x 480 x 1200	900 x 480 x 1200
Weight	≈ 135 kg	≈ 150 kg	≈ 150 kg
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“		