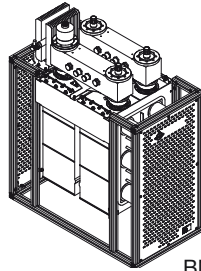
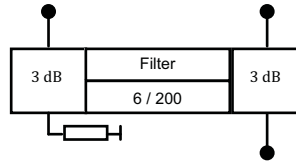
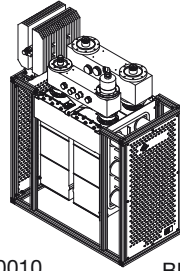


CCS UHF CIB COMBINERS

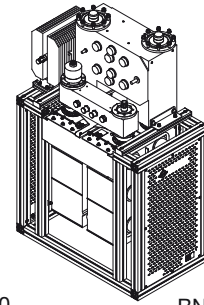
- **CCS** compact design
- integrated mask filters for DTV
- adjacent channel operation
- for 6, 7 and 8 MHz channel bandwidth
- temperature compensated
- tuneable within the whole UHF range
- liquid cooled filter



BN 57 46 98 A0010



BN 57 49 71 A0010



BN 57 49 74 A0020

| Part number | BN 57 46 98 A0010 | BN 57 49 71 A0010 | BN 57 49 74 A0020 |
|--|---|---|--|
| Cooling | liquid cooling | liquid cooling | liquid cooling |
| Frequency range | | 470 - 860 MHz | |
| Channel spacing | | ≥ 0 | |
| Narrow band input | | 3 1/8" EIA male | |
| Filter type integrated cavities/size | | 6/200 ≡ BN 616540 | |
| Temperature stability | | ≤ 2 kHz / K | |
| Harmonics attenuation | | ≥ 50 dB for f ≤ 860 MHz | |
| DTV Mask filtering | DVB-T @ 8 MHz ($\dot{U}/U_{rms}=13$ dB) | ISDB-T @ 6 MHz ($\dot{U}/U_{rms}=13$ dB) | DVB-T @ 7 MHz ($\dot{U}/U_{rms}=13$ dB) |
| Average input power <small>The input power of liquid cooled filters must be reduced if installed more than 500 m above sea level.</small> | ≤ 23 kW @ 0 - 1000 m ≤ 20 kW @ 2000 m ≤ 18 kW @ 2600 m ≤ 16 kW @ 3200 m ≤ 14 kW @ 3800 m ≤ 12 kW @ 4400 m | ≤ 20 kW @ 0 - 500 m ≤ 18 kW @ 1200 m ≤ 16 kW @ 2000 m ≤ 14 kW @ 2800 m ≤ 12 kW @ 3400 m ≤ 10 kW @ 4200 m | ≤ 22 kW @ 0 - 600 m ≤ 20 kW @ 1400 m ≤ 18 kW @ 2000 m ≤ 16 kW @ 2600 m ≤ 14 kW @ 3300 m ≤ 12 kW @ 4000 m |
| Tuning instruction | AS6194 | AS6185 | AS6290 |
| Insertion loss & Mask filtering <small>(alternative tuning on request)</small> | 470 MHz 860 MHz f_0 ≤ 0.30 dB ≤ 0.45 dB $f_0 \pm 3.805$ ≤ 0.70 dB ≤ 1.00 dB $f_0 \pm 3.885$ ≤ 0.85 dB ≤ 1.15 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 ≤ 0.4 dB ≤ 0.55 dB $f_0 \pm 2.79$ ≤ 1.0 dB ≤ 1.40 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 820 MHz f_0 ≤ 0.30 dB ≤ 0.40 dB $f_0 \pm 3.2$ ≤ 0.45 dB ≤ 0.55 dB $f_0 \pm 4.2$ ≥ 13 dB $f_0 \pm 10.5$ ≥ 38 dB |
| Group delay variation | $\Delta\tau \leq 350$ ns | $\Delta\tau \leq 500$ ns | $\Delta\tau \leq 150$ ns |
| Wide band input | 3 1/8" EIA male | 4 1/2" EIA male | 52-120 BT male |
| Average input power | ≤ 17.5 kW | ≤ 33 kW | ≤ 60 kW |
| DTV Mask filtering | | no | |
| Insertion loss | | ≤ 0.1 dB (non adjacent) | |
| Output | 3 1/8" EIA male | 4 1/2" EIA male | 52-120 BT male |
| Peak output voltage | ≤ 12.5 kV | ≤ 15.5 kV | ≤ 19.5 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 520 x 1400 |
| Weight | ≈ 145 kg | ≈ 165 kg | ≈ 210 kg |
| Environmental conditions | for limitations see „Environmental Conditions for Broadcast Products“ | | |