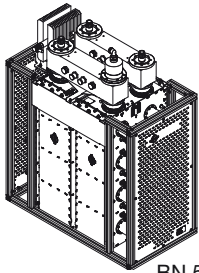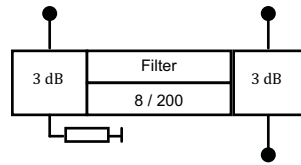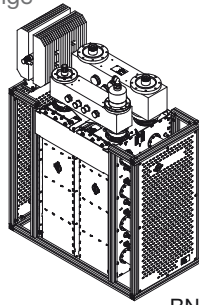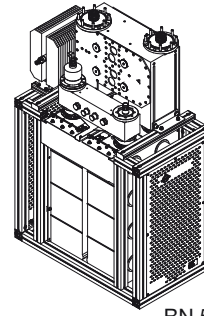## CCS UHF CIB COMBINERS

- **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



| | Filter | |
|---|---|---|
| 3 dB | 8 / 200 | 3 dB |

BN 57 49 65 A0010        BN 57 49 66 A0010        BN 57 49 91 A0020

| Part number | BN 57 49 65 A0010 | BN 57 49 66 A0010 | BN 57 49 91 A0020 |
|---|---|---|---|
| Frequency range | | 470 - 860 MHz | |
| Channel spacing | | ≥ 0 | |
| **Narrow band input** | | 3 1/8" EIA male | |
| Filter type integrated cavities/size | | **8/200 ≡ BN 616544** | |
| Temperature stability | | ≤ 2 kHz / K | |
| Harmonics attenuation | | ≥ 50 dB for f ≤ 860 MHz | |
| DTV Mask filtering | DVB-T @ 8 MHz ($\hat{U}/U_{rms}$=13 dB) | ISDB-T @ 7 MHz ($\hat{U}/U_{rms}$=13 dB) | ATSC @ 6 MHz ($\hat{U}/U_{rms}$=13 dB) |
| Average input power | **≤ 8 kW** | **≤ 6.4 kW** | **≤ 6.4 kW** |
| Tuning instruction | AS8067 | AS8074 | AS8066 |
| Insertion loss & Mask filtering (alternative tuning on request) | $f_0$    470 MHz  860 MHz<br>       ≤ 0.4 dB   ≤ 0.5 dB<br>$f_0 \pm 3.805$  ≤ 1.0 dB  ≤ 1.4 dB<br>$f_0 \pm 3.885$  ≤ 1.5 dB  ≤ 1.7 dB<br>$f_0 \pm 4.2$         ≥ 15 dB<br>$f_0 \pm 6$           ≥ 40 dB<br>$f_0 \pm 12$          ≥ 55 dB | $f_0$    470 MHz  803 MHz<br>       ≤ 0.45 dB  ≤ 0.5 dB<br>$f_0 \pm 2.79$  ≤ 1.20 dB  ≤ 1.5 dB<br>$f_0 \pm 3.15$        ≥ 15 dB<br>$f_0 \pm 4.5$         ≥ 30 dB<br>$f_0 \pm 9$           ≥ 55 dB | $f_0$    470 MHz  820 MHz<br>       ≤ 0.5 dB   ≤ 0.55 dB<br>$f_0 \pm 2.69$  ≤ 1.0 dB  ≤ 1.30 dB<br>$f_0 \pm 3.0$         ≥ 4 dB<br>$f_0 \pm 3.25$        ≥ 18 dB<br>$f_0 \pm 9$           ≥ 64 dB |
| Group delay variation | $\Delta\tau \le 700$ ns | $\Delta\tau \le 500$ ns | $\Delta\tau \le 400$ 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 |
| | | 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 | 4 1/2" EIA male | 52-120 BT male |
| Peak output voltage | ≤ 12.5 kV | ≤ 15.5 kV | ≤ 19.5 kV |
| 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 | ≈ 175 kg | ≈ 190 kg | ≈ 240 kg |
| Environmental conditions | | for limitations see „Environmental Conditions for Broadcast Products" | |