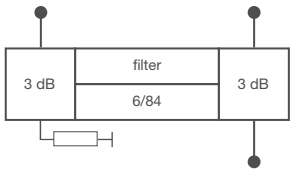
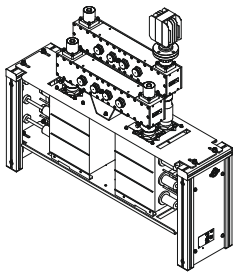
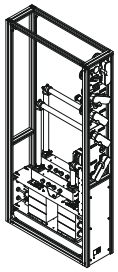
# **CCS** UHF CIB Combiners

- **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 576005C0002 with rack**



**BN 576005 inside switching rack**



| **Part Number** | **BN 576004C0002** | **BN 576005C0002** |
|---|---|---|
| Frequency range | 470 - 800 MHz | |
| Channel spacing | ≥ 0 | |
| **Narrowband input** | 7-16 female | 1 5/8" EIA |
| Filter type integrated cavities/size | **6/84 ≡ BN 616402** | |
| 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 1.0 @ 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<br>$f_0$ ≤ 0.5 dB / ≤ 0.6 dB<br>$f_0 \pm 3.805$ ≤ 1.2 dB / ≤ 1.5 dB<br>$f_0 \pm 3.885$ ≤ 1.3 dB / ≤ 1.6 dB<br>$f_0 \pm 4.2$ ≥ 4 dB<br>$f_0 \pm 6$ ≥ 20 dB<br>$f_0 \pm 12$ ≥ 40 dB | 470 MHz / 803 MHz<br>$f_0$ ≤ 0.6 dB / ≤ 0.8 dB<br>$f_0 \pm 2.79$ ≤ 1.6 dB / ≤ 2.2 dB<br>$f_0 \pm 3.0$ ≥ 4 dB<br>$f_0 \pm 3.15$ ≥ 8 dB<br>$f_0 \pm 4.5$ ≥ 23 dB<br>$f_0 \pm 9$ ≥ 48 dB<br>$f_0 \pm 15$ ≥ 50 dB / 470 MHz / 803 MHz<br>$f_0$ ≤ 0.7 dB / ≤ 0.9 dB<br>$f_0 \pm 2.69$ ≤ 1.1 dB / ≤ 1.55 dB<br>$f_0 \pm 3.0$ ≤ 1.9 dB / ≤ 2.45 dB<br>$f_0 \pm 3.25$ ≥ 4 dB<br>$f_0 \pm 3.5$ ≥ 8 dB<br>$f_0 \pm 4$ ≥ 15 dB<br>$f_0 \pm 6$ ≥ 40 dB<br>$f_0 \pm 9$ ≥ 65 dB |
| Group delay variation | Δτ ≤ 330 ns | Δτ ≤ 500 ns / Δτ ≤ 200 ns |
| **Wideband input** | 1 5/8" EIA | |
| Average input power | **≤ 7 kW**<br>Attention: The power at the wideband input must be reduced by 50 % of the power fed into the narrowband input. | |
| DTV mask filtering | No | |
| Insertion loss | ≤ 0.1 dB (non adjacent) | |
| **Output** | 1 5/8" EIA | |
| 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“. | |