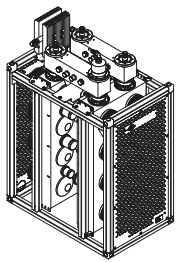
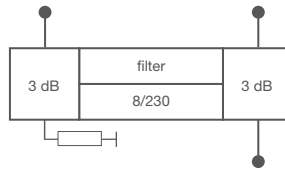
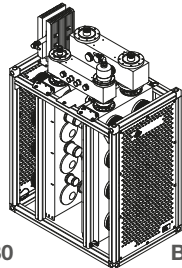


## CCS UHF CIB Combiners

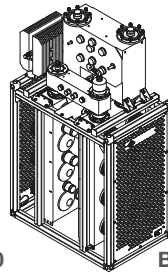
- **CCS** compact design
- Integrated mask filters for DTV
- Adjacent channel operation
- Temperature compensated
- For 6, 7 and 8 MHz channel bandwidth
- Tuneable within the whole UHF range



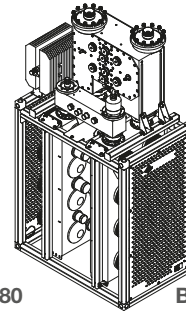
BN 576080A0080



BN 576081A0080



BN 576082A0080



BN 576083A0080

| Part Number  | BN 576080A0080   | BN 576081A0080                              | BN 576082A0080                                | BN 576083A0080   |                          |           |                |           |           |
|--|--|---|---|------------------|--------------------------|-----------|----------------|-----------|-----------|
| Frequency range  | 470 - 790 MHz  |   |   |                  |                          |           |                |           |           |
| Channel spacing  | ≥ 0  |   |   |                  |                          |           |                |           |           |
| <b>Narrowband input</b>  | 3 1/8" EIA male  |   |   |                  |                          |           |                |           |           |
| Filter type integrated cavities/size                               | 8/230 ≡ BN 616670  |   |   |                  |                          |           |                |           |           |
| Temperature stability  | ≤ 2 kHz / K  |   |   |                  |                          |           |                |           |           |
| Harmonics attenuation  | ≥ 50 dB for f ≤ 860 MHz  |   |   |                  |                          |           |                |           |           |
| DTV mask filtering   | DVB-T @ 8 MHz<br>( $\dot{U}/U_{ms}=13$ dB)                             | ISDB-T @ 6 MHz<br>( $\dot{U}/U_{ms}=13$ dB) | ATSC 1.0 @ 6 MHz<br>( $\dot{U}/U_{ms}=11$ dB) |                  |                          |           |                |           |           |
| Average input power  | ≤ 17 kW  | ≤ 13.5 kW                                   | ≤ 13.5 kW                                     |                  |                          |           |                |           |           |
| Tuning instruction   | AS8124   | AS8128                                      | AS8127  |                  |                          |           |                |           |           |
| Insertion loss & mask filtering<br>(alternative tuning on request) | 470 MHz  | 790 MHz                                     | 470 MHz                                       | 790 MHz          |                          |           |                |           |           |
|  | $f_0$  | ≤ 0.4 dB                                    | ≤ 0.45 dB                                     | $f_0$            | ≤ 0.45 dB                | ≤ 0.50 dB | $f_0$          | ≤ 0.45 dB | ≤ 0.50 dB |
|  | $f_0 \pm 3.805$  | ≤ 1.05 dB                                   | ≤ 1.10 dB                                     | $f_0 \pm 2.79$   | ≤ 1.15 dB                | ≤ 1.20 dB | $f_0 \pm 2.69$ | ≤ 1.00 dB | ≤ 1.10 dB |
|  | $f_0 \pm 3.885$  | ≤ 1.25 dB                                   | ≤ 1.35 dB                                     | $f_0 \pm 3.15$   | ≥ 15 dB                  |           | $f_0 \pm 3$    | ≥ 4 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                                     |   | $f_0 \pm 15$     | ≥ 65 dB                  |           |                |           |           |
| Group delay variation  | $\Delta\tau \leq 700$ ns   |   | $\Delta\tau \leq 550$ ns                      |                  | $\Delta\tau \leq 450$ ns |           |                |           |           |
| <b>Wideband input</b>  | 3 1/8" EIA male  | 4 1/2" EIA male                             | 52-120 BT male                                | 6 1/8" EIA male  |                          |           |                |           |           |
| Average input power  | ≤ 17.5 kW  | ≤ 33 kW                                     | ≤ 60 kW                                       | ≤ 60 kW          |                          |           |                |           |           |
| DTV mask filtering   | No   |   |   |                  |                          |           |                |           |           |
| Insertion loss   | ≤ 0.1 dB (non adjacent)  |   |   |                  |                          |           |                |           |           |
| <b>Output</b>  | 3 1/8" EIA male  | 4 1/2" EIA male                             | 52-120 BT male                                | 6 1/8" EIA male  |                          |           |                |           |           |
| Peak output voltage  | ≤ 12.5 kV  | ≤ 15.5 kV                                   | ≤ 19.5 kV                                     | ≤ 24 kV          |                          |           |                |           |           |
| Average output power   | -  | -   | ≤ 60 kW                                       | -                |                          |           |                |           |           |
| Isolation between inputs   | ≥ 35 dB  |   |   |                  |                          |           |                |           |           |
| VSWR (one WB channel)  | ≤ 1.06   |   |   |                  |                          |           |                |           |           |
| Dimensions (L x W x H) mm  | 900 x 570 x 1400   |   | 900 x 570 x 1600                              | 900 x 570 x 1650 |                          |           |                |           |           |
| Weight   | ≈ 200 kg   | ≈ 210 kg                                    | ≈ 260 kg                                      | ≈ 285 kg         |                          |           |                |           |           |
| Environmental conditions   | For limitations see „Environmental Conditions for Broadcast Products“. |   |   |                  |                          |           |                |           |           |