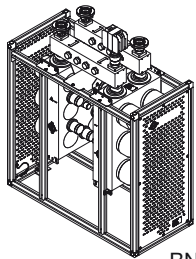
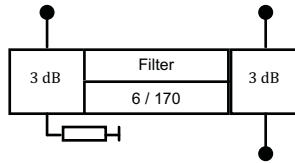
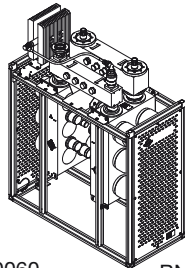


CCS UHF CIB COMBINERS

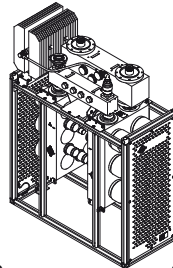
- CCS compact design
- integrated mask filters for DTV
- adjacent channel operation
- for 6, 7 and 8 MHz channel bandwidth
- temperature compensated
- tuneable within the whole UHF range



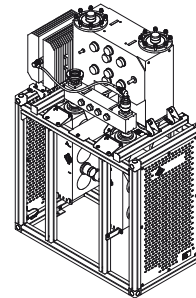
BN 57 55 20 A0060



BN 57 55 21 A0060



BN 57 55 22 A0060



BN 57 55 23 A0020

| Part number / Width  | BN 57 55 20 A0010 480<br>BN 57 55 20 A0060 415  | BN 57 55 21 A0010 480<br>BN 57 55 21 A0060 415 | BN 57 55 22 A0010 480<br>BN 57 55 22 A0060 415 | BN 57 55 23 A0020 520 |
|--|---|--|--|-----------------------|
| Frequency range  | 470 - 860 MHz   |  |  |                       |
| Channel spacing  | ≥ 0   |  |  |                       |
| <b>Narrow band input</b>   | 1 5/8" EIA  |  |  |                       |
| Filter type integrated cavities/size                               | 6/170 ≡ BN 616665   |  |  |                       |
| Temperature stability  | ≤ 2 kHz / K   |  |  |                       |
| Harmonics attenuation  | ≥ 50 dB for f ≤ 1000 MHz  |  |  |                       |
| DTV Mask filtering   | DVB-T @ 8 MHz<br>( $\dot{U}/U_{rms}=13$ dB)   | ISDB-T @ 6 MHz<br>( $\dot{U}/U_{rms}=13$ dB)   | ATSC @ 6 MHz<br>( $\dot{U}/U_{rms}=11$ dB)     |                       |
| Average input power  | ≤ 7 kW  | ≤ 6 kW   | ≤ 6 kW   |                       |
| Tuning instruction   | AS6217  | AS6222   | AS6221   |                       |
| Insertion loss & Mask filtering<br>(alternative tuning on request) | 470 MHz 860 MHz   | 470 MHz 803 MHz                                | 470 MHz 803 MHz                                |                       |
|  | $f_0$ ≤ 0.35 dB ≤ 0.45 dB   | $f_0$ ≤ 0.50 dB ≤ 0.60 dB                      | $f_0$ ≤ 0.45 dB ≤ 0.6 dB                       |                       |
|  | $f_0 \pm 3.805$ ≤ 0.85 dB ≤ 1.0 dB  | $f_0 \pm 2.79$ ≤ 1.15 dB ≤ 1.35 dB             | $f_0 \pm 2.69$ ≤ 0.65 dB ≤ 0.8 dB              |                       |
|  | $f_0 \pm 3.885$ ≤ 1.00 dB ≤ 1.1 dB  | $f_0 \pm 3.0$ ≥ 3 dB                           | $f_0 \pm 3.5$ ≥ 3 dB                           |                       |
|  | $f_0 \pm 4.2$ ≥ 4 dB  | $f_0 \pm 3.15$ ≥ 5 dB                          | $f_0 \pm 4$ ≥ 8 dB                             |                       |
|  | $f_0 \pm 6$ ≥ 20 dB   | $f_0 \pm 4.5$ ≥ 17 dB                          | $f_0 \pm 6$ ≥ 30 dB                            |                       |
|  | $f_0 \pm 12$ ≥ 40 dB  | $f_0 \pm 9$ ≥ 38 dB                            | $f_0 \pm 9$ ≥ 65 dB                            |                       |
|  |   | $f_0 \pm 15$ ≥ 48 dB                           |  |                       |
| Group delay variation  | $\Delta\tau \leq 350$ ns  | $\Delta\tau \leq 400$ ns                       | $\Delta\tau \leq 150$ ns                       |                       |
| <b>Wide band input</b>   | 1 5/8" EIA  | 3 1/8" EIA male                                | 4 1/2" EIA male                                | 52-120 BT male        |
| Average input power  | ≤ 7 kW  | ≤ 17.5 kW                                      | ≤ 33 kW  | ≤ 60 kW               |
| DTV Mask filtering   | Attention: The power at the wide band input must be reduced by 50 % of the power fed into the narrow band input |  |  |                       |
| Insertion loss   | no  |  |  |                       |
|  | ≤ 0.1 dB (non adjacent)   |  |  |                       |
| <b>Output</b>  | 1 5/8" EIA  | 3 1/8" EIA male                                | 4 1/2" EIA male                                | 52-120 BT male        |
| Peak output voltage  | ≤ 8.5 kV  | ≤ 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 BN 57 55 20 A0010, BN 57 55 21 A0010, BN 57 55 22 A0010  |  |  | 900 x 520 x 1400      |
|  | 900 x 415 x 1200 BN 57 55 20 A0060, BN 57 55 21 A0060, BN 57 55 22 A0060  |  |  |                       |
| Weight   | ≈ 105 kg  | ≈ 115 kg                                       | ≈ 135 kg                                       | ≈ 180 kg              |
| Environmental conditions   | for limitations see „Environmental Conditions for Broadcast Products“   |  |  |                       |