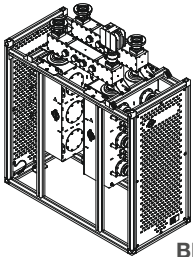
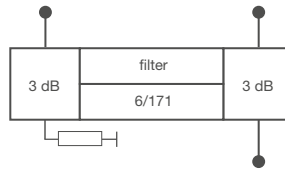
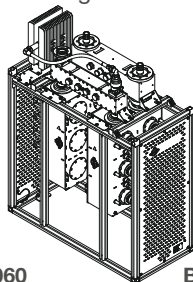


CCS UHF CIB Combiners

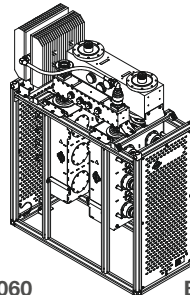
- **CCS** compact design
- Integrated mask filters for DTV
- Adjacent channel operation
- For 6, 7 and 8 MHz channel bandwidth
- Temperature compensated
- Tuneable within the whole UHF range



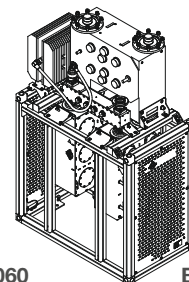
BN 578020A0060



BN 578021A0060



BN 578022A0060



BN 578023A0020

Multi Channel Combiners

| Part Number/Size | BN 578020A0010 480 BN 578020A0060 415 | BN 578021A0010 480 BN 578021A0060 415 | BN 578022A0010 480 BN 578022A0060 415 | BN 578023A0020 520 |
|---|--|--|--|---------------------|
| Frequency range | 470 - 700 MHz | | | |
| Channel spacing | ≥ 0 | | | |
| Narrowband input | 1 5/8" EIA | | | |
| Filter type integrated cavities/size | 6/171 ≡ BN 616576 | | | |
| Temperature stability | ≤ 2 kHz / K | | | |
| Harmonics attenuation | ≥ 50 dB for f ≤ 1000 MHz | | | |
| DTV mask filtering | DVB-T @ 8 MHz ($\dot{U}/U_{rms}=13$ dB) | | ISDB-T @ 6 MHz ($\dot{U}/U_{rms}=13$ dB) | |
| Average input power | ≤ 7 kW | | ≤ 6 kW | |
| Tuning instruction | AS6548 | | AS6549 | |
| Insertion loss & mask filtering (alternative tuning on request) | 470 MHz 700 MHz | | 470 MHz 700 MHz | |
| | f_0 | ≤ 0.35 dB ≤ 0.45 dB | f_0 | ≤ 0.50 dB ≤ 0.60 dB |
| | $f_0 \pm 3.805$ | ≤ 0.85 dB ≤ 1.00 dB | $f_0 \pm 2.79$ | ≤ 1.15 dB ≤ 1.35 dB |
| | $f_0 \pm 3.885$ | ≤ 1.00 dB ≤ 1.10 dB | $f_0 \pm 3.0$ | ≥ 3 dB |
| | $f_0 \pm 4.2$ | ≥ 4 dB | $f_0 \pm 3.15$ | ≥ 5 dB |
| | $f_0 \pm 6$ | ≥ 20 dB | $f_0 \pm 4.5$ | ≥ 17 dB |
| | $f_0 \pm 12$ | ≥ 40 dB | $f_0 \pm 9$ | ≥ 38 dB |
| | | | $f_0 \pm 15$ | ≥ 48 dB |
| Group delay variation | $\Delta\tau \leq 350$ ns | | $\Delta\tau \leq 400$ ns | |
| Wideband input | 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 |
| | 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 | 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 |
| Average output power | ≤ 7 kW | - | - | ≤ 60 kW |
| Isolation between inputs | ≥ 35 dB | | | |
| VSWR (one WB channel) | ≤ 1.06 | | | |
| Dimensions (L x W x H) mm | BN 578020A0010, BN 578021A0010, BN 578022A0010: 900 x 480 x 1200 BN 578020A0060, BN 578021A0060, BN 578022A0060: 900 x 415 x 1200 | | | 900 x 520 x 1400 |
| Weight | ≈ 95 kg | ≈ 100 kg | ≈ 120 kg | ≈ 160 kg |
| Environmental conditions | For limitations see „Environmental Conditions for Broadcast Products“. | | | |