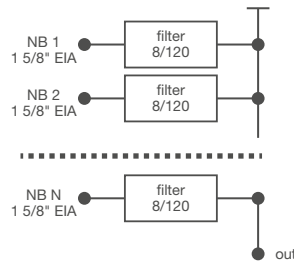
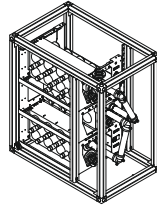


UHF Manifold Combiners

- Compact design as 19" slide-in unit (7RU per channel)
- Delivered in rack
- Installation in customer-owned rack on request
- Integrated mask filters for DTV
- Applicable within the whole UHF range
- For 6, 7 and 8 MHz channel bandwidth
- Temperature compensated



BN 578013C0001

| Part Number | BN 578012C0001 2 Inputs | BN 578013C0001 3 Inputs | BN 578014C0001 4 Inputs | BN 578015C0001 5 Inputs |
|--|---|----------------------------|----------------------------|----------------------------|
| Frequency range | 470 - 700 MHz | | | |
| Narrowband input | 1 5/8" EIA | | | |
| Filter type integrated cavities/size | 8/120 ≡ BN 616664 | | | |
| Temperature stability | ≤ 2 kHz / K | | | |
| Harmonics attenuation | ≥ 50 dB for f ≤ 500 MHz | | | |
| Standard | DVB-T @ 8 MHz, ($\hat{U}/U_{rms}=13$ dB) | | | |
| Average input power/channel width | 1.6 kW per input for non-adjacent channels or 1.2 kW for adjacent channels | | | |
| Channel spacing | ≥ 0 (pairs of adjacent channels possible) | | | |
| Tuning instruction AS8112 | f_0 0.5-0.6 dB | f_0 0.5-0.8 dB | f_0 5.1-1.0 dB | f_0 0.5-1.1 dB |
| Insertion loss for non-adjacent channels | $f_0 \pm 3.805$ 1.5-2.0 dB | $f_0 \pm 3.805$ 1.6-2.1 dB | $f_0 \pm 3.805$ 1.6-2.4 dB | $f_0 \pm 3.805$ 1.6-2.5 dB |
| | $f_0 \pm 3.885$ 1.6-2.4 dB | $f_0 \pm 3.885$ 1.7-2.5 dB | $f_0 \pm 3.885$ 1.7-2.8 dB | $f_0 \pm 3.885$ 1.7-2.9 dB |
| Mask filtering | | | $f_0 \pm 4.2$ ≥ 15 dB | |
| | | | $f_0 \pm 6$ ≥ 40 dB | |
| | | | $f_0 \pm 12$ ≥ 55 dB | |
| Group delay variation | $\Delta\tau \leq 550$ ns (at adjacent channel slopes: on request) | | | |
| Isolation between inputs | ≥ 35 dB (for adjacent channels: on request) | | | |
| Standard | ISDB-T @ 6 MHz, ($\hat{U}/U_{rms}=13$ dB) | | | |
| Average input power/channel width | 1.3 kW per input for non-adjacent channels or 1 kW for adjacent channels | | | |
| Channel spacing | ≥ 0 | | | |
| Tuning instruction AS8117 | f_0 0.55-0.7 dB | f_0 0.55-0.9 dB | f_0 0.55-1.1 dB | f_0 1.05-1.2 dB |
| Insertion loss for non-adjacent channels | $f_0 \pm 2.79$ 1.3-1.8 dB | $f_0 \pm 2.79$ 1.4-1.9 dB | $f_0 \pm 2.79$ 1.4-2.2 dB | $f_0 \pm 2.79$ 1.4-2.3 dB |
| | | | $f_0 \pm 3.15$ ≥ 15 dB | |
| Mask filtering | | | $f_0 \pm 4.5$ ≥ 30 dB | |
| | | | $f_0 \pm 9$ ≥ 55 dB | |
| Group delay variation | $\Delta\tau \leq 600$ ns (at adjacent channel slopes: on request) | | | |
| Isolation between inputs | ≥ 35 dB (for adjacent channels: on request) | | | |
| Standard | ATSC 1.0 @ 6 MHz, ($\hat{U}/U_{rms}=11$ dB) | | | |
| Average input power/channel width | 1.3 kW per input for non-adjacent channels or 1 kW for adjacent channels | | | |
| Channel spacing | ≥ 0 | | | |
| Tuning instruction AS8115 | f_0 0.6-0.7 dB | f_0 0.6-0.9 dB | f_0 0.6-1.1 dB | f_0 0.6-1.2 dB |
| Insertion loss for non-adjacent channels | $f_0 \pm 2.69$ 1.3-1.6 dB | $f_0 \pm 2.69$ 1.4-1.9 dB | $f_0 \pm 2.69$ 1.7-2.0 dB | $f_0 \pm 2.69$ 1.8-2.1 dB |
| | | | $f_0 \pm 3.5$ ≥ 4 dB | |
| Mask filtering | | | $f_0 \pm 3.25$ ≥ 18 dB | |
| | | | $f_0 \pm 9$ ≥ 64 dB | |
| Group delay variation | $\Delta\tau \leq 400$ ns (at adjacent channel slopes: on request) | | | |
| Isolation between inputs | ≥ 35 dB (for adjacent channels: on request) | | | |
| Output | 1 5/8" EIA | | | |
| Average output power | 7 kW | | | |
| Peak output voltage | 8.5 kV | | | |
| VSWR | ≤ 1.17 (≤ 1.20 for adjacent channels) | | | |
| Dimensions (L x W x H) mm | 900 x 575 x 982 | | 900 x 575 x 1560 | |
| Weight | ≈ 70 kg | ≈ 100 kg | ≈ 130 kg | ≈ 160 kg |
| Environmental conditions | For limitations see „Environmental Conditions for Broadcast Products“. | | | |