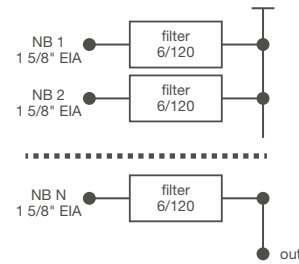
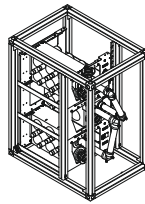


UHF Manifold Combiners

- 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 578003C0001

| Part Number | BN 578002C0001 2 Inputs | BN 578003C0001 3 Inputs | BN 578004C0001 4 Inputs | BN 578005C0001 5 Inputs |
|--|---|--|--|--|
| Frequency range | 470 - 700 MHz | | | |
| Narrowband input | 1 5/8" EIA | | | |
| Filter type integrated cavities/size | 6/120 ≡ BN 616663 | | | |
| 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 AS6224 | f_0 | f_0 | f_0 | f_0 |
| Insertion loss for non-adjacent channels | 0.4-0.5 dB $f_0 \pm 3.805$ 0.9-1.2 dB $f_0 \pm 3.885$ 1.0-1.4 dB | 0.4-0.7 dB $f_0 \pm 3.805$ 0.9-1.3 dB $f_0 \pm 3.885$ 1.1-1.5 dB | 0.4-0.9 dB $f_0 \pm 3.805$ 0.9-1.5 dB $f_0 \pm 3.885$ 1.2-1.7 dB | 0.4-1.0 dB $f_0 \pm 3.805$ 0.9-1.6 dB $f_0 \pm 3.885$ 1.2-1.7 dB |
| Mask filtering | $f_0 \pm 4.2$ ≥ 4 dB $f_0 \pm 6$ ≥ 20 dB $f_0 \pm 12$ ≥ 40 dB | | | |
| Group delay variation | $\Delta\tau \leq 350$ 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 AS6229 | f_0 | f_0 | f_0 | f_0 |
| Insertion loss for non-adjacent channels | 0.5-0.6 dB $f_0 \pm 2.79$ 1.2-1.5 dB | 0.5-0.8 dB $f_0 \pm 2.79$ 1.2-1.7 dB | 0.5-0.9 dB $f_0 \pm 2.79$ 1.2-1.8 dB | 0.5-1.0 dB $f_0 \pm 2.79$ 1.2-1.9 dB |
| Mask filtering | $f_0 \pm 3$ ≥ 3 dB $f_0 \pm 3.15$ ≥ 5 dB $f_0 \pm 4.5$ ≥ 17 dB $f_0 \pm 9$ ≥ 38 dB $f_0 \pm 15$ ≥ 48 dB | | | |
| Group delay variation | $\Delta\tau \leq 450$ 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 AS6228 | f_0 | f_0 | f_0 | f_0 |
| Insertion loss for non-adjacent channels | 0.5-0.65 dB $f_0 \pm 2.69$ 0.65-1.4 dB | 0.5-0.85 dB $f_0 \pm 2.69$ 0.65-1.75 dB | 0.5-0.95 dB $f_0 \pm 2.69$ 0.65-1.9 dB | 0.5-1.1 dB $f_0 \pm 2.69$ 0.65-2.0 dB |
| Mask filtering | $f_0 \pm 3.5$ ≥ 3 dB $f_0 \pm 4$ ≥ 8 dB $f_0 \pm 6$ ≥ 30 dB $f_0 \pm 9$ ≥ 65 dB | | | |
| Group delay variation | $\Delta\tau \leq 250$ 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 | 800 x 575 x 982 | 800 x 575 x 982 | 800 x 575 x 1560 | 800 x 575 x 1560 |
| Weight | ≈ 65 kg | ≈ 94 kg | ≈ 122 kg | ≈ 150 kg |
| Environmental conditions | For limitations see „Environmental Conditions for Broadcast Products“. | | | |

Multi Channel Combiners