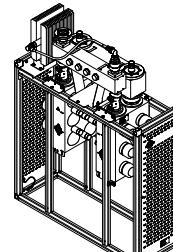
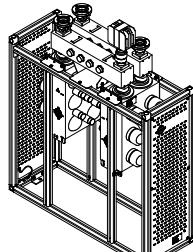
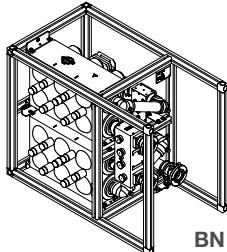
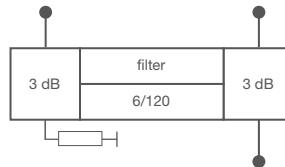


CCS UHF CIB Combiners

- 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 578011A0070

BN 576012A0040

BN 576013A0040

Part Number/Size	BN 578011A0070 19"	BN 576012A0030 700 BN 576012A0040 900	BN 576013A0030 700 BN 576013A0040 900																																														
Frequency range	470 - 800 MHz																																																
Channel spacing	≥ 0																																																
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 $f \leq 1100$ MHz																																																
DTV mask filtering	DVB-T @ 8 MHz ($\hat{U}/U_{rms} = 13$ dB)	ISDB-T @ 6 MHz ($\hat{U}/U_{rms} = 13$ dB)	ATSC @ 6 MHz ($\hat{U}/U_{rms} = 11$ dB)																																														
Average input power	≤ 3.2 kW	≤ 2.6 kW	≤ 2.6 kW																																														
Tuning instruction	AS6224	AS6229	AS6228																																														
Insertion loss & mask filtering (alternative tuning on request)	<table border="0"> <tr> <td>470 MHz</td> <td>860 MHz</td> <td>470 MHz</td> <td>803 MHz</td> <td>470 MHz</td> <td>803 MHz</td> </tr> <tr> <td>f_0</td> <td>≤ 0.4 dB</td> <td>≤ 0.5 dB</td> <td>f_0</td> <td>≤ 0.45 dB</td> <td>≤ 0.6 dB</td> </tr> <tr> <td>$f_0 \pm 3.805$</td> <td>≤ 0.9 dB</td> <td>≤ 1.2 dB</td> <td>$f_0 \pm 2.79$</td> <td>≤ 1.20 dB</td> <td>≤ 1.5 dB</td> </tr> <tr> <td>$f_0 \pm 3.885$</td> <td>≤ 1.0 dB</td> <td>≤ 1.4 dB</td> <td>$f_0 \pm 3.0$</td> <td>≥ 3 dB</td> <td>$f_0 \pm 3.5$</td> </tr> <tr> <td>$f_0 \pm 4.2$</td> <td></td> <td>≥ 4 dB</td> <td>$f_0 \pm 3.15$</td> <td>≥ 5 dB</td> <td>$f_0 \pm 4$</td> </tr> <tr> <td>$f_0 \pm 6$</td> <td></td> <td>≥ 20 dB</td> <td>$f_0 \pm 4.5$</td> <td>≥ 17 dB</td> <td>$f_0 \pm 6$</td> </tr> <tr> <td>$f_0 \pm 12$</td> <td></td> <td>≥ 40 dB</td> <td>$f_0 \pm 9$</td> <td>≥ 38 dB</td> <td>$f_0 \pm 9$</td> </tr> <tr> <td></td> <td></td> <td></td> <td>$f_0 \pm 15$</td> <td>≥ 48 dB</td> <td></td> </tr> </table>	470 MHz	860 MHz	470 MHz	803 MHz	470 MHz	803 MHz	f_0	≤ 0.4 dB	≤ 0.5 dB	f_0	≤ 0.45 dB	≤ 0.6 dB	$f_0 \pm 3.805$	≤ 0.9 dB	≤ 1.2 dB	$f_0 \pm 2.79$	≤ 1.20 dB	≤ 1.5 dB	$f_0 \pm 3.885$	≤ 1.0 dB	≤ 1.4 dB	$f_0 \pm 3.0$	≥ 3 dB	$f_0 \pm 3.5$	$f_0 \pm 4.2$		≥ 4 dB	$f_0 \pm 3.15$	≥ 5 dB	$f_0 \pm 4$	$f_0 \pm 6$		≥ 20 dB	$f_0 \pm 4.5$	≥ 17 dB	$f_0 \pm 6$	$f_0 \pm 12$		≥ 40 dB	$f_0 \pm 9$	≥ 38 dB	$f_0 \pm 9$				$f_0 \pm 15$	≥ 48 dB	
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Group delay variation	$\Delta\tau \leq 350$ ns	$\Delta\tau \leq 450$ ns	$\Delta\tau \leq 250$ ns																																														
Wideband input	1 5/8" EIA																																																
Average input power	≤ 7 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																																																
Peak output voltage	≤ 8.5 kV																																																
Isolation between inputs	≥ 35 dB																																																
VSWR (one WB channel)	≤ 1.06																																																
Dimensions (L x W x H) mm	800 x 448 x 617	BN 576012A0030, BN 576013A0030: 700 x 315 x 1200 BN 576012A0040, BN 576013A0040: 900 x 315 x 1200																																															
Weight	≈ 70 kg	≈ 80 kg																																															
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“.																																																