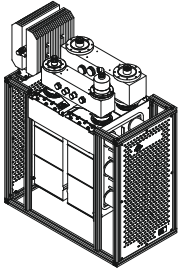
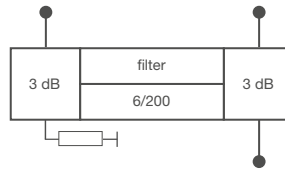
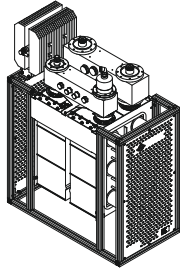


CCS UHF CIB Combiners

- **CCS** compact design
- Integrated mask filters for ATSC
- For 6 MHz channel bandwidth
- Temperature compensated
- Tuneable within the whole UHF range
- Liquid cooled filter



BN 576097A0010



BN 576097A2010

Part Number	BN 576097A0010 natural cooling	BN 576097A2010 liquid cooling																					
Frequency range	470 - 800 MHz																						
Channel spacing	≥ 1																						
Narrowband input	3 1/8" EIA																						
Filter type integrated cavities/size	6/200 ≡ BN 616571																						
Temperature stability	≤ 2 kHz / K																						
Harmonics attenuation	≥ 50 dB for f ≤ 860 MHz																						
DTV mask filtering	ATSC 1.0 @ 6 MHz ($\dot{U}/U_{rms}=11$ dB)																						
Average input power	≤ 9 kW	≤ 20 kW @ 0 - 600 m ≤ 19 kW @ 1000 m ≤ 16 kW @ 2000 m ≤ 13 kW @ 3000 m ≤ 10 kW @ 4000 m																					
Tuning instruction	AS6082																						
Insertion loss & mask filtering (alternative tuning on request)	<table border="0"> <tr> <td></td> <td>470 MHz</td> <td>803 MHz</td> </tr> <tr> <td>f_0</td> <td>≤ 0.5 dB</td> <td>≤ 0.7 dB</td> </tr> <tr> <td>$f_0 \pm 2.69$</td> <td>≤ 0.7 dB</td> <td>≤ 0.9 dB</td> </tr> <tr> <td>$f_0 \pm 3$</td> <td>≤ 1.5 dB</td> <td>≤ 1.85 dB</td> </tr> <tr> <td>$f_0 \pm 4$</td> <td>≥ 15 dB</td> <td>≥ 15 dB</td> </tr> <tr> <td>$f_0 \pm 6$</td> <td>≥ 40 dB</td> <td>≥ 40 dB</td> </tr> <tr> <td>$f_0 \pm 9$</td> <td>≥ 65 dB</td> <td>≥ 65 dB</td> </tr> </table>			470 MHz	803 MHz	f_0	≤ 0.5 dB	≤ 0.7 dB	$f_0 \pm 2.69$	≤ 0.7 dB	≤ 0.9 dB	$f_0 \pm 3$	≤ 1.5 dB	≤ 1.85 dB	$f_0 \pm 4$	≥ 15 dB	≥ 15 dB	$f_0 \pm 6$	≥ 40 dB	≥ 40 dB	$f_0 \pm 9$	≥ 65 dB	≥ 65 dB
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Group delay variation	$\Delta\tau \leq 200$ ns																						
Wideband input	4 1/2" EIA																						
Average input power	≤ 33 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	4 1/2" EIA																						
Peak output voltage	≤ 15.5 kV																						
Average output power	≤ 40 kW																						
Isolation between inputs	≥ 35 dB																						
VSWR (one WB channel)	≤ 1.06																						
Dimensions (L x W x H) mm	900 x 480 x 1200																						
Weight	≈ 165 kg																						
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“.																						

Multi Channel Combiners