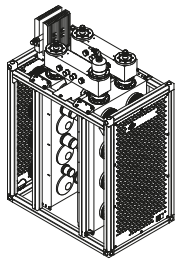
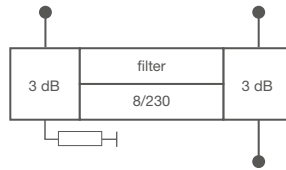
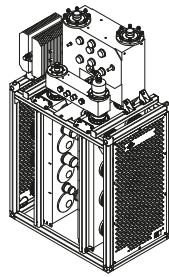


## CCS UHF CIB Combiners

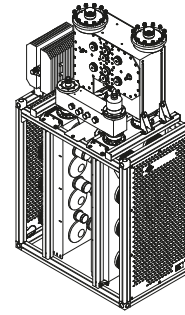
- **CCS** compact design
- Integrated mask filters for DTV
- Adjacent channel operation
- Temperature compensated
- For 6, 7 and 8 MHz channel bandwidth
- Tuneable within the whole UHF range
- Liquid cooled filters and couplers



BN 576085A2080



BN 576086A2080



BN 576087A2080

Part Number Cooling	BN 576085A2080 Liquid Cooling	BN 576086A2080 Liquid Cooling	BN 576087A20800 Liquid Cooling
Frequency range	470 - 790 MHz		
Channel spacing	≥ 0		
<b>Narrowband input</b>	4 1/2" EIA male		
Filter type integrated cavities/size	8/230 ≡ BN 616670		
Temperature stability	≤ 2 kHz / K		
Harmonics attenuation	≥ 50 dB for f ≤ 860 MHz		
DTV mask filtering	DVB-T @ 8 MHz (Û/U <sub>rms</sub> =13 dB)	ISDB-T @ 6 MHz (Û/U <sub>rms</sub> =13 dB)	ATSC 1.0 @ 6 MHz (Û/U <sub>rms</sub> =11 dB)
Average input power The input power of liquid cooled filters must be reduced if installed more than 500 m above sea level.	≤ 33 kW @ 0 -500 m ≤ 28 kW @ 1600 m ≤ 24 kW @ 2400 m ≤ 20 kW @ 3400 m ≤ 16 kW @ 4200 m	≤ 27 kW @ 0 -500 m ≤ 24 kW @ 1200 m ≤ 20 kW @ 2400 m ≤ 16 kW @ 3400 m ≤ 12 kW @ 4600 m	≤ 33 kW @ 0 - 500 m ≤ 28 kW @ 1600 m ≤ 24 kW @ 2400 m ≤ 20 kW @ 3400 m ≤ 16 kW @ 4200 m
Tuning instruction	AS8124	AS8128	AS8127
Insertion loss & mask filtering (alternative tuning on request)	470 MHz    790 MHz f <sub>0</sub> ≤ 0.4 dB    ≤ 0.45 dB f <sub>0</sub> ± 3.805    ≤ 1.05 dB    ≤ 1.10 dB f <sub>0</sub> ± 3.885    ≤ 1.25 dB    ≤ 1.35 dB f <sub>0</sub> ± 4.2    ≥ 15 dB f <sub>0</sub> ± 6    ≥ 40 dB f <sub>0</sub> ± 12    ≥ 55 dB	470 MHz    790 MHz f <sub>0</sub> ≤ 0.45 dB    ≤ 0.5 dB f <sub>0</sub> ± 2.79    ≤ 1.15 dB    ≤ 1.20 dB f <sub>0</sub> ± 3.15    ≥ 15 dB f <sub>0</sub> ± 4.5    ≥ 30 dB f <sub>0</sub> ± 9    ≥ 55 dB f <sub>0</sub> ± 15    ≥ 65 dB	470 MHz    790 MHz f <sub>0</sub> ≤ 0.45 dB    ≤ 0.5 dB f <sub>0</sub> ± 2.69    ≤ 1.00 dB    ≤ 1.1 dB f <sub>0</sub> ± 3.0    ≥ 4 dB f <sub>0</sub> ± 3.25    ≥ 18 dB f <sub>0</sub> ± 9    ≥ 64 dB
Group delay variation	Δτ ≤ 700 ns	Δτ ≤ 550 ns	Δτ ≤ 450 ns
<b>Wideband input</b>	4 1/2" EIA male	52-120 BT male	6 1/8" EIA male
Average input power	≤ 33 kW	≤ 60 kW	≤ 80 kW
DTV mask filtering	No		
Insertion loss	≤ 0.1 dB (non adjacent)		
<b>Output</b>	4 1/2" EIA male	52-120 BT male	6 1/8" EIA male
Peak output voltage	≤ 15.5 kV	≤ 19.5 kV	≤ 24 kV
Average output power	-	≤ 60 kW	≤ 78 kW
Isolation between inputs	≥ 35 dB		
VSWR (one WB channel)	≤ 1.06		
Dimensions (L x W x H) mm	900 x 570 x 1400	900 x 570 x 1600	900 x 570 x 1650
Weight	≈ 210 kg	≈ 260 kg	≈ 285 kg
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“.		