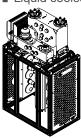
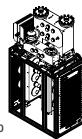


CCS UHF CIB Combiners

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





BN 576076A2080

BN 576077A2080

filter

6/230

3 dB

Part Number Cooling	BN 576075A2080 Liquid Cooling	BN 576076A2080 Liquid Cooling	BN 576077A2080 Liquid Cooling	BN 576078A2080 Liquid Cooling	
Frequency range	470 - 790 MHz				
Channel spacing	≥ 0				
Narrowband input	4 1/2" EIA male				
Filter type integrated cavities/size	6/230 ≡ BN 616669				
Temperature stability	≤ 2 kHz / K				
Harmonics attenuation	\geq 50 dB for f \leq 800 MHz				
DTV mask filtering	^		T @ 6 MHz _{ms} =13 dB) (Û	ATSC 1.0 @ 6 MHz I/U _{rms} =11 dB) 470 - 650 MH	
Average input power The input power of liquid cooled filters must be reduced if in- stalled more than 500 m above sea level.	≤ 32 kW @ 1400 m ≤ 28 kW ≤ 28 kW @ 2200 m ≤ 24 kW ≤ 24 kW @ 3000 m ≤ 20 kW		@ 0 - 500 m @ 1000 m @ 2000 m @ 3000 m @ 4000 m	≤ 40 kW @ 0 - 500 m ¹ ≤ 36 kW @ 1200 m ¹ ≤ 32 kW @ 2000 m ¹ ≤ 28 kW @ 2600 m ¹ ≤ 24 kW @ 3300 m ¹ ≤ 20 kW @ 4000 m ¹	
Tuning instruction	AS6303 AS6365		S6365	AS6308	
Insertion loss & mask filtering (alternative tuning on request) Group delay variation Wideband input Average input power	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.40 dB $f_0 \le 0$ 0.90 dB $f_0 \pm 2.79 \le 0$ 1.00 dB $f_0 \pm 3.0$ 3 $f_0 \pm 3.15$ 3 $f_0 \pm 4.5$ 3 $f_0 \pm 9$ 5 $f_0 \pm 15$ 5 $\Delta \tau$ 52-120 BT male $f_0 = 0$ $f_0 = 0$ $f_0 = 0$	70 MHz 790 MHz $\frac{1}{2}$ 790	4 ≥ 8 dB 6 ≥ 30 dB 9 ≥ 65 dB $\Delta \tau \le 150 \text{ ns}$ $6 \frac{1}{8}$ EIA male $\le 80 \text{ kW}$	
DTV mask filtering	No				
Insertion loss	≤ 0.1 dB (non adjacent)				
Output	4 1/2" EIA male	52-120 BT male	6 1/8" EIA male	6 1/8" EIA male	
Peak output voltage	≤ 15.5 kV	≤ 19.5 kV	≤ 24 kV	≤ 24 kV	
Average output power	-	≤ 60 kW	≤ 78 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		
Weight	≈ 190 kg	≈ 240 kg	≈ 250 kg	≈ 260 kg	
Liquid cooling interface	Stainless steel tube 12 x 1 mm unflanged ending straight at the bottom				
Environmental conditions	For limitati	ions see "Environmental	Conditions for Broadcast	Products".	