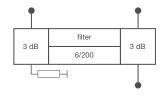
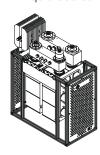
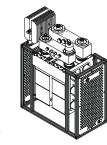


CCS UHF CIB Combiners

- 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

		97		

Frequency range	Part Number	BN 576097A0010 natural cooling	BN 576097A2010 liquid cooling		
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 (U/V _{max} =11 dB) Average input power ≤ 9 kW S 9 kW ≤ 9 kW Average input power ≤ 9 kW S 9 kW ≤ 20 kW @ 0 - 600 m (19 kW @ 1000 m (19 kW @ 2000 m (19 kW	Frequency range	470 - 800 MHz			
Filter type integrated cavities/size Temperature stability Harmonics attenuation S 50 dB for f ≤ 860 MHz ATSC 1.0 @ 6 MHz (U/U _{max} =11 dB) AVerage input power AS6082 Insertion loss & mask filtering Group delay variation Group delay variation Attention: The power at the wideband input must be reduced by 50 % of the power fed into the narrowband input. DTV mask filtering Attention: The power at the wideband input must be reduced by 50 % of the power fed into the narrowband input. DtV mask filtering At 1/2" EIA Average output yoltage At 1/2" EIA Average output yoltage At 1/2" EIA Average output yoltage At 1/2" EIA Average output power At 1/2" EIA Average output yoltage At 1/2" EIA Average output power At 1/2 EIA Average output power At 1/2 EIA Average output power At 1/2 EIA Average output Notlage At 1/2 EIA Average Output N	Channel spacing	≥1			
Temperature stability	Narrowband input	3 1/8" EIA			
Harmonics attenuation DTV mask filtering ATSC 1.0 @ 6 MHz (U/U _{mm} =11 dB) ≤ 9 kW Seq b kW @ 0 - 600 m	Filter type integrated cavities/size	6/200 ≡ BN 616571			
DTV mask filtering	Temperature stability	≤ 2 kHz / K			
Solution Solutio	Harmonics attenuation	\geq 50 dB for f \leq 860 MHz			
Average input power Second Parage input power Secon	DTV mask filtering				
Insertion loss & mask filtering (alternative tuning on request) $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Average input power	≤ 9 kW	≤ 19 kW @ 1000 m ≤ 16 kW @ 2000 m ≤ 13 kW @ 3000 m		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tuning instruction	ASG	6082		
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		$\begin{array}{lll} f_0 & \leq 0. \\ f_0 \pm 2.69 & \leq 0. \\ f_0 \pm 3 & \leq 1. \\ f_0 \pm 4 & \geq 1 \\ f_0 \pm 6 & \geq 4 \end{array}$	5 dB ≤ 0.7 dB 7 dB ≤ 0.9 dB 5 dB ≤ 1.85 dB 5 dB ≥ 15 dB 0 dB ≥ 40 dB		
Average input power 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	Group delay variation	$\Delta au \le 200 \text{ ns}$			
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 $\leq 0.1 \text{ dB (non adjacent)}$ Output $4 \frac{1}{2}$ EIA Peak output voltage $\leq 15.5 \text{ kV}$ Average output power $\leq 40 \text{ kW}$ Isolation between inputs $\geq 35 \text{ dB}$ VSWR (one WB channel) Dimensions (L x W x H) mm $= 900 \times 480 \times 1200$ Weight	Wideband input	4 1/2" EIA			
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	Average input power	≤ 33 kW			
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					
Output $4 \frac{1}{2}$ " EIAPeak output voltage $\leq 15.5 \text{ kV}$ Average output power $\leq 40 \text{ kW}$ Isolation between inputs $\geq 35 \text{ dB}$ VSWR (one WB channel) ≤ 1.06 Dimensions (L x W x H) mm $900 \times 480 \times 1200$ Weight $\approx 165 \text{ kg}$	DTV mask filtering	No			
Peak output voltage $\leq 15.5 \text{ kV}$ Average output power $\leq 40 \text{ kW}$ Isolation between inputs $\geq 35 \text{ dB}$ VSWR (one WB channel) ≤ 1.06 Dimensions (L x W x H) mm $= 900 \times 480 \times 1200$ Weight $\approx 165 \text{ kg}$	Insertion loss	≤ 0.1 dB (non adjacent)			
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	Output	4 1/2" EIA			
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	Peak output voltage	≤ 15.5 kV			
VSWR (one WB channel) ≤ 1.06 Dimensions (L x W x H) mm 900 x 480 x 1200 Weight ≈ 165 kg	Average output power	≤ 40 kW			
Dimensions (L x W x H) mm 900 x 480 x 1200 Weight ≈ 165 kg	Isolation between inputs	≥ 35 dB			
Weight ≈ 165 kg	VSWR (one WB channel)	≤ 1.06			
	Dimensions (L x W x H) mm	900 x 480 x 1200			
Environmental conditions	Weight	≈ 165 kg			
Environmental conditions for broadcast Products.	Environmental conditions	For limitations see "Environmental Conditions for Broadcast Products".			