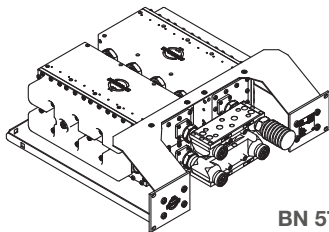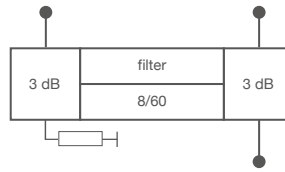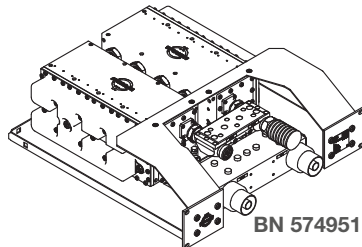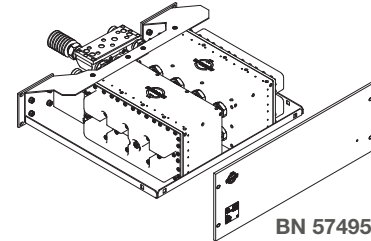# UHF CIB Combiners

- Compact design as 19" slide-in unit
- For 6, 7 and 8 MHz channel bandwidth
- Integrated mask filters for DTV
- Adjacent channel operation
- Temperature compensated
- Tuneable within the whole UHF range

BN 575571

BN 574951

BN 574951C0002

Multi Channel Combiners

Part Number Front Plate Design	BN 575571 Without Front Plate BN 575571C0002 With Front Plate and Ports at Rear Side	BN 574951 Without Front Plate BN 574951C0002 With Front Plate and Ports at Rear Side	
Frequency range	470 - 860 MHz		
Channel spacing	≥ 0		
Narrowband input	7-16 female		
Filter type integrated cavities/size	**8/60 ≡ BN 616568**		
Temperature stability	≤ 2 kHz / K		
Harmonics attenuation	≥ 50 dB for f ≤ 1200 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	**$\leq$ 750 W**	**$\leq$ 600 W**	**$\leq$ 600 W**
Tuning instruction	AS8087	AS8095	AS8084
Insertion loss & mask filtering (alternative tuning on request)	f_0 470 MHz 860 MHz f_0 ≤ 0.75 dB ≤ 1.00 dB $f_0 \pm 3.805$ ≤ 2.35 dB ≤ 3.15 dB $f_0 \pm 3.885$ ≤ 3.05 dB ≤ 3.85 dB $f_0 \pm 4.2$ ≥ 15 dB $f_0 \pm 6$ ≥ 40 dB $f_0 \pm 12$ ≥ 55 dB	470 MHz 803 MHz f_0 ≤ 0.85 dB ≤ 1.15 dB $f_0 \pm 2.79$ ≤ 2.25 dB ≤ 3.10 dB $f_0 \pm 3.15$ ≥ 15 dB $f_0 \pm 4.5$ ≥ 30 dB $f_0 \pm 9$ ≥ 55 dB	470 MHz 803 MHz f_0 ≤ 1.10 dB ≤ 1.30 dB $f_0 \pm 2.69$ ≤ 2.35 dB ≤ 2.85 dB $f_0 \pm 3.0$ ≥ 3 dB $f_0 \pm 3.25$ ≥ 18 dB $f_0 \pm 9$ ≥ 64 dB
Group delay variation	$\Delta\tau \leq 660$ ns	$\Delta\tau \leq 500$ ns	$\Delta\tau \leq 420$ ns
Wideband input	7-16 female	1 5/8" SMS unflanged	
Average input power	**$\leq$ 1.1 kW**	**$\leq$ 4 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	7-16 female	1 5/8" SMS unflanged	
Peak output voltage	≤ 2.8 kV	≤ 6 kV	
Isolation between inputs	≥ 35 dB		
VSWR (one WB channel)	≤ 1.06		
Dimensions (L x W x H) mm	482 x 483 x 177 (4RU)	510 x 483 x 177 (4RU)	
Weight	$\approx$ 20 kg	$\approx$ 22 kg	
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products".		