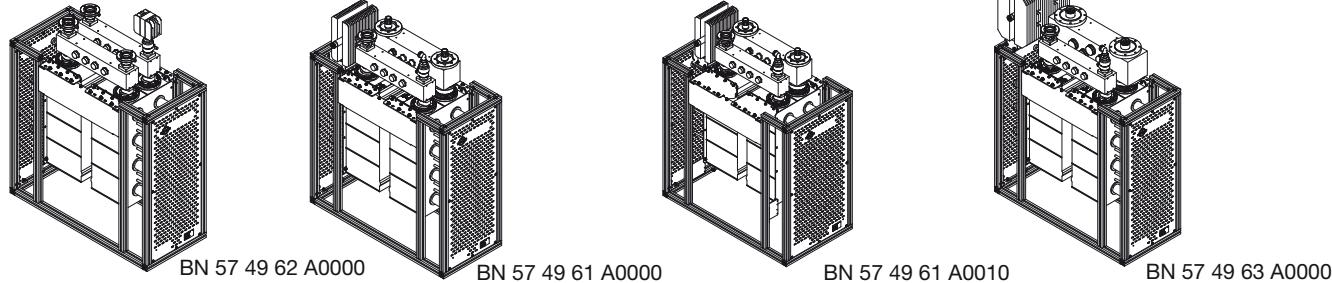
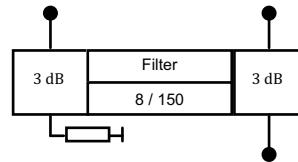


## CCS UHF CIB COMBINERS

- **CCS** compact design
- integrated mask filters for DTV
- adjacent channel operation
- for 6, 7 and 8 MHz channel bandwidth
- temperature compensated
- tuneable within the whole UHF range



Part number / Width	BN 57 49 62 A0000 BN 57 49 62 A0010	390 480	BN 57 49 61 A0000 BN 57 49 61 A0010	390 480	BN 57 49 63 A0000 BN 57 49 63 A0010	390 480	
Frequency range	470 - 860 MHz						
Channel spacing	$\geq 0$						
<b>Narrow band input</b>	1 5/8" EIA						
Filter type integrated cavities/size	<b>8/150 ≡ BN 616542</b>						
Temperature stability	$\leq 2 \text{ kHz} / \text{K}$						
Harmonics attenuation	$\geq 50 \text{ dB}$ for $f \leq 860 \text{ MHz}$						
DTV Mask filtering	DVB-T @ 8 MHz ( $\hat{U}/U_{\text{rms}}=13 \text{ dB}$ )		ISDB-T @ 6 MHz ( $\hat{U}/U_{\text{rms}}=13 \text{ dB}$ )		ATSC @ 6 MHz ( $\hat{U}/U_{\text{rms}}=11 \text{ dB}$ )		
Average input power	<b><math>\leq 4 \text{ kW}</math></b>		<b><math>\leq 3.2 \text{ kW}</math></b>		<b><math>\leq 3.2 \text{ kW}</math></b>		
Tuning instruction	AS8071		AS8096		AS8094		
Insertion loss & Mask filtering (alternative tuning on request)	$f_0$ $f_0 \pm 3.805$ $f_0 \pm 3.885$ $f_0 \pm 4.2$ $f_0 \pm 6$ $f_0 \pm 12$	$470 \text{ MHz}$ $\leq 0.5 \text{ dB}$ $\leq 1.6 \text{ dB}$ $\leq 1.8 \text{ dB}$ $\geq 15 \text{ dB}$ $\geq 40 \text{ dB}$ $\geq 55 \text{ dB}$	$860 \text{ MHz}$ $\leq 0.75 \text{ dB}$ $\leq 2.2 \text{ dB}$ $\leq 2.5 \text{ dB}$ $f_0 \pm 2.79$ $f_0 \pm 3.15$ $f_0 \pm 4.5$ $f_0 \pm 9$	$470 \text{ MHz}$ $\leq 0.6 \text{ dB}$ $\leq 1.4 \text{ dB}$ $\leq 1.85 \text{ dB}$ $\geq 15 \text{ dB}$ $\geq 30 \text{ dB}$ $\geq 55 \text{ dB}$	$803 \text{ MHz}$ $\leq 0.80 \text{ dB}$ $\leq 1.85 \text{ dB}$ $\geq 15 \text{ dB}$ $\geq 30 \text{ dB}$ $\geq 55 \text{ dB}$	$470 \text{ MHz}$ $\leq 0.8 \text{ dB}$ $\leq 1.6 \text{ dB}$ $\leq 3.00$ $\leq 3.25$ $f_0 \pm 9$	$806 \text{ MHz}$ $\leq 1.0 \text{ dB}$ $\leq 1.7 \text{ dB}$ $\geq 4 \text{ dB}$ $\geq 18 \text{ dB}$ $\geq 64 \text{ dB}$
Group delay variation	$\Delta\tau \leq 700 \text{ ns}$		$\Delta\tau \leq 500 \text{ ns}$		$\Delta\tau \leq 400 \text{ ns}$		
<b>Wide band input</b>	1 5/8" EIA		3 1/8" EIA male		4 1/2" EIA male		
Average input power	$\leq 7 \text{ kW}$		$\leq 17.5 \text{ kW}$		$\leq 33 \text{ kW}$		
DTV Mask filtering	Attention: The power at the wide band input must be reduced by 50 % of the power fed into the narrow band input no						
Insertion loss	$\leq 0.1 \text{ dB}$ (non adjacent)						
<b>Output</b>	1 5/8" EIA		3 1/8" EIA male		4 1/2" EIA male		
Peak output voltage	$\leq 8.5 \text{ kV}$		$\leq 12.5 \text{ kV}$		$\leq 15.5 \text{ kV}$		
Isolation between inputs	$\geq 35 \text{ dB}$						
VSWR (one WB channel)	$\leq 1.06$						
Dimensions (L x W x H) mm	900 x 390 x 1200 BN 57 49 62 A0000 900 x 480 x 1200 BN 57 49 62 A0010		900 x 390 x 1200 BN 57 49 61 A0000 900 x 480 x 1200 BN 57 49 61 A0010		900 x 390 x 1200 BN 57 49 63 A0000 900 x 480 x 1200 BN 57 49 63 A0010		
Weight	$\approx 105 \text{ kg}$		$\approx 120 \text{ kg}$		$\approx 135 \text{ kg}$		
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“						