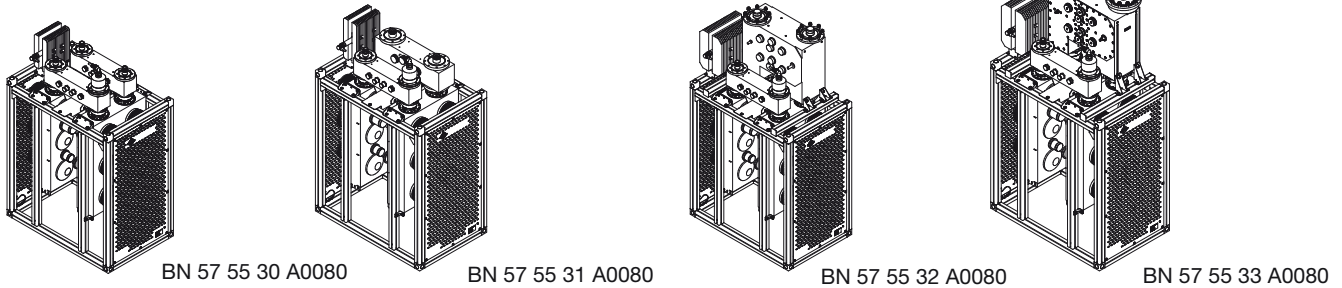
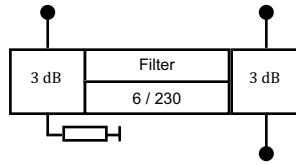


CCS UHF CIB COMBINERS

- 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	BN 57 55 30 A0080		BN 57 55 31 A0080	BN 57 55 32 A0080		BN 57 55 33 A0080	
Frequency range	470 - 800 MHz						
Channel spacing	≥ 0						
Narrow band input	3 1/8" EIA male						
Filter type integrated cavities/size	6/230 ≡ BN 616669						
Temperature stability	≤ 2 kHz / K						
Harmonics attenuation	≥ 50 dB for f ≤ 800 MHz						
DTV Mask filtering	DVB-T @ 8 MHz ($\dot{U}/U_{rms}=13$ dB)		ISDB-T @ 6 MHz ($\dot{U}/U_{rms}=13$ dB)		ATSC @ 6 MHz ($\dot{U}/U_{rms}=11$ dB)		
Average input power	≤ 17 kW		≤ 13.5 kW		≤ 13.5 kW		
Tuning instruction	AS6303		AS6365		AS6308		
Insertion loss & Mask filtering (alternative tuning on request)	470 MHz 786 MHz		470 MHz 785 MHz		470 MHz 785 MHz		
	f_0	≤ 0.30 dB ≤ 0.4 dB	f_0	≤ 0.4 dB ≤ 0.55 dB	f_0	≤ 0.45 dB ≤ 0.5 dB	
	$f_0 \pm 3.805$	≤ 0.75 dB ≤ 0.9 dB	$f_0 \pm 2.79$	≤ 0.85 dB ≤ 1.0 dB	$f_0 \pm 2.69$	≤ 0.80 dB ≤ 0.8 dB	
	$f_0 \pm 3.885$	≤ 0.85 dB ≤ 1.0 dB	$f_0 \pm 3.0$	≥ 2 dB	$f_0 \pm 3.5$	≥ 3 dB	
	$f_0 \pm 4.2$	≥ 4 dB	$f_0 \pm 3.15$	≥ 8 dB	$f_0 \pm 4$	≥ 8 dB	
	$f_0 \pm 6$	≥ 20 dB	$f_0 \pm 4.5$	≥ 23 dB	$f_0 \pm 6$	≥ 30 dB	
	$f_0 \pm 12$	≥ 40 dB	$f_0 \pm 9$	≥ 48 dB	$f_0 \pm 9$	≥ 65 dB	
	$f_0 \pm 15$	≥ 50 dB					
Group delay variation	$\Delta\tau \leq 350$ ns		$\Delta\tau \leq 500$ ns		$\Delta\tau \leq 200$ ns		
Wide band input	3 1/8" EIA male		4 1/2" EIA male		52-120 BT male		6 1/8" EIA male
Average input power	≤ 17.5 kW		≤ 33 kW		≤ 60 kW		≤ 60 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						
Insertion loss	no						
	≤ 0.1 dB (non adjacent)						
Output	3 1/8" EIA male		4 1/2" EIA male		52-120 BT male		6 1/8" EIA male
Peak output voltage	≤ 12.5 kV		≤ 15.5 kV		≤ 19.5 kV		≤ 24 kV
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 1400		900 x 570 x 1600		900 x 570 x 1650
Weight	≈ 160 kg		≈ 170 kg		≈ 220 kg		≈ 245 kg
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“						