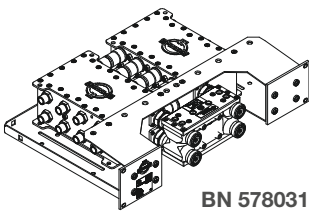
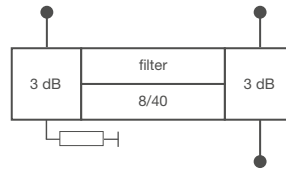
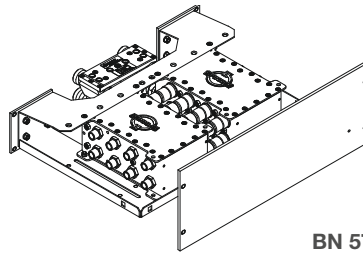


## UHF CIB Combiners

- 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 578031



BN 578031C0002

Multi Channel Combiners

Part Number Front Plate Design	BN 578031 Without Front Plate		BN 578031C0002 With Front Plate and Ports at Rear Side	
Frequency range	470 - 800 MHz			
Channel spacing	≥ 0			
<b>Narrowband input</b>	7-16 female			
Filter type integrated cavities/size	<b>8/40 ≡ BN 616661</b>			
Temperature stability	≤ 2 kHz / K			
Harmonics attenuation	≥ 60 dB for f ≤ 1340 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 1.0 @ 6 MHz ( $\dot{U}/U_{rms}=11$ dB)	
Average input power	≤ 240 W	≤ 200 W	≤ 200 W	
Tuning instruction	AS8131	AS8133	AS8132	
Insertion loss & mask filtering (alternative tuning on request)	470 MHz 860 MHz	470 MHz 860 MHz	470 MHz	860 MHz
	$f_0$ ≤ 1.2 dB ≤ 1.6 dB	$f_0$ ≤ 1.5 dB ≤ 1.85 dB	$f_0$ ≤ 1.6 dB	≤ 2.0 dB
	$f_0 \pm 3.805$ ≤ 3.7 dB ≤ 5.3 dB	$f_0 \pm 2.79$ ≤ 4.5 dB ≤ 5.1 dB	$f_0 \pm 2.69$ ≤ 3.9 dB	≤ 4.5 dB
	$f_0 \pm 3.885$ ≤ 4.5 dB ≤ 5.9 dB	$f_0 \pm 3.15$ ≥ 15 dB	$f_0 \pm 3$ ≥ 5 dB	
	$f_0 \pm 4.2$ ≥ 15 dB	$f_0 \pm 4.5$ ≥ 30 dB	$f_0 \pm 3.25$ ≥ 18 dB	
	$f_0 \pm 6$ ≥ 40 dB	$f_0 \pm 9$ ≥ 55 dB	$f_0 \pm 9$ ≥ 64 dB	
	$f_0 \pm 12$ ≥ 55 dB	$f_0 \pm 15$ ≥ 65 dB		
Group delay variation	$\Delta\tau \leq 600$ ns	$\Delta\tau \leq 500$ ns	$\Delta\tau \leq 400$ ns	
<b>Wideband input</b>	7-16 female			
Average input power	<b>1 kW</b>			
	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)			
<b>Output</b>	7-16 female			
Peak output voltage	≤ 2.8 kV			
Isolation between inputs	≥ 35 dB			
VSWR (one WB channel)	≤ 1.06			
Dimensions (L x W x H) mm	355 x 483 x 133 (3RU)			
Weight	≈ 14 kg			
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“.			