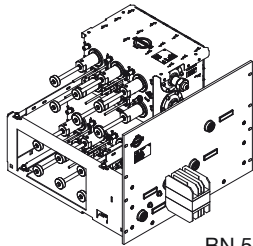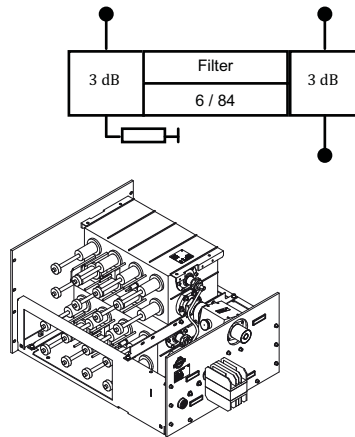## UHF CIB COMBINERS

- compact design as 19" slide-in unit
- integrated mask filters for DTV
- adjacent channel operation
- for 6, 7 and 8 MHz channel bandwidth
- temperature compensated
- tuneable within the whole UHF range

| 3 dB | Filter 6 / 84 | 3 dB |

BN 57 46 41 C0001

BN 57 49 42 C0001

Part number Front plate design	**BN 57 46 41 C0001** with ports at front plate **BN 57 46 41 C0002** with ports at rear side		**BN 57 49 42 C0001** with ports at front plate **BN 57 49 42 C0002** with ports at rear side
Frequency range	470 - 860 MHz		
Channel spacing	≥ 0		
Narrow band input	7-16 female		
Filter type integrated cavities/size	**6/84 ≡ BN616402**		
Temperature stability	$\leq$ 2 kHz / K		
Harmonics attenuation	$\geq$ 50 dB for $f \leq$ 950 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	**≤ 1.5 kW**	**≤ 1.2 kW**	**≤ 1.2 kW**
Tuning instruction	AS6186	AS6182	AS6156
Insertion loss & Mask filtering (alternative tuning on request)	470 MHz 860 MHz f_0 $\leq$ 0.5 dB $\leq$ 0.6 dB $f_0 \pm 3.805$ $\leq$ 1.2 dB $\leq$ 1.5 dB $f_0 \pm 3.885$ $\leq$ 1.3 dB $\leq$ 1.6 dB $f_0 \pm 4.2$ $\geq$ 4 dB $f_0 \pm 6$ $\geq$ 20 dB $f_0 \pm 12$ $\geq$ 40 dB	470 MHz 803 MHz f_0 $\leq$ 0.6 dB $\leq$ 0.8 dB $f_0 \pm 2.79$ $\leq$ 1.6 dB $\leq$ 2.2 dB $f_0 \pm 3.0$ $\geq$ 4 dB $f_0 \pm 3.15$ $\geq$ 8 dB $f_0 \pm 4.5$ $\geq$ 23 dB $f_0 \pm 9$ $\geq$ 48 dB $f_0 \pm 15$ $\geq$ 50 dB	470 MHz 803 MHz f_0 $\leq$ 0.7 dB $\leq$ 0.9 dB $f_0 \pm 2.69$ $\leq$ 1.1 dB $\leq$ 1.55 dB $f_0 \pm 3.0$ $\leq$ 1.9 dB $\leq$ 2.45 dB $f_0 \pm 3.25$ $\geq$ 4 dB $f_0 \pm 3.5$ $\geq$ 8 dB $f_0 \pm 4$ $\geq$ 15 dB $f_0 \pm 6$ $\geq$ 40 dB $f_0 \pm 9$ $\geq$ 65 dB
Group delay variation	$\Delta\tau \leq$ 330 ns	$\Delta\tau \leq$ 500 ns	$\Delta\tau \leq$ 200 ns
Wide band input	7-16 female		1 5/8" SMS unflanged
Average input power	$\leq$ 1 kW		$\leq$ 7 kW
	Attention: The power at the wide band input must be reduced by 50 % of the power fed into the narrow band input		
DTV Mask filtering	no		
Insertion loss	$\leq$ 0.1 dB (non adjacent)		
Output	7-16 female		1 5/8" SMS unflanged
Average output power	–		$\leq$ 7 kW
Peak output voltage	$\leq$ 1.6 kV		$\leq$ 8.5 kV
Isolation between inputs	$\geq$ 35 dB		
VSWR (one WB channel)	$\leq$ 1.06		
Dimensions (L x W x H) mm	586 x 483 x 355 (8RU)		643 x 483 x 355 (8RU)
Weight	$\approx$ 30 kg		$\approx$ 32 kg
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products"		