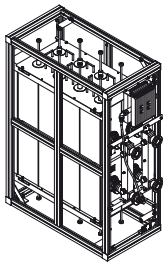
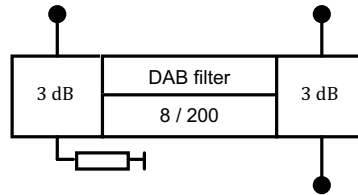
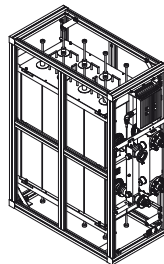


### BAND 3 DAB CIB COMBINERS

- **CCS** compact design
- for 1.54 MHz block width
- integrated mask filters for DAB and T-DMB
- adjacent block operation
- temperature compensated
- filters with cross coupling (notch function)
- liquid cooled filter



BN 57 49 07



BN 57 46 48

Part number	BN 57 49 07 natural cooling	BN 57 46 97 liquid cooling	BN 57 46 48 natural cooling
Frequency range	170 - 240 MHz		
Block spacing	≥ 0		
<b>Narrow band input</b>	1 5/8" EIA		
Filter type integrated cavities/size	8/200 ≡ BN 617113		
Temperature stability	≤ 2 kHz / K		
Harmonics attenuation	≥ 50 dB for f ≤ 500 MHz		
DAB and T-DMB Mask filtering	DAB / T-DMB @ 1.54 MHz ( $\dot{U}/U_{rms}=13$ dB)		
Average input power The input power of liquid cooled filters must be reduced if installed more than 500 m above sea level.	≤ 6 kW	≤ 10.2 kW @ 0 - 500 m ≤ 9.0 kW @ 1400 m ≤ 8.0 kW @ 2100 m ≤ 7.0 kW @ 2800 m ≤ 6.0 kW @ 3600 m	≤ 6 kW
Tuning instruction	AS8042		AS8075
Insertion loss & Mask filtering (alternative tuning on request)	$f_0$ ≤ 0.7 dB $f_0 \pm 0.77$ MHz ≤ 1.3 dB $f_0 \pm 0.97$ MHz ≥ 15 dB $f_0 \pm 1.15$ MHz ≥ 30 dB $f_0 \pm 1.75$ MHz ≥ 50 dB $f_0 \pm 2.20$ MHz ≥ 65 dB $f_0 \pm 3.00$ MHz ≥ 65 dB		$f_0$ ≤ 0.75 dB $f_0 \pm 0.77$ MHz ≤ 1.55 dB $f_0 \pm 0.97$ MHz ≥ 28 dB $f_0 \pm 1.15$ MHz n.d. $f_0 \pm 1.75$ MHz ≥ 61 dB $f_0 \pm 2.20$ MHz ≥ 67 dB $f_0 \pm 3.00$ MHz ≥ 70 dB
Group delay variation	$\Delta\tau \leq 1200$ ns		$\Delta\tau \leq 1300$ ns
<b>Wide band input</b>	1 5/8" EIA		3 1/8" EIA male
Average input power	≤ 14 kW		≤ 30 kW
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)		
<b>Output</b>	1 5/8" EIA		3 1/8" EIA male
Peak output voltage	≤ 7.7 kV		≤ 12.7 kV
Isolation between inputs	≥ 35 dB		
VSWR	≤ 1.1		
Dimensions (L x W x H) mm	≈ 1200 x 520 x 1420		
Weight	≈ 240 kg		
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“		