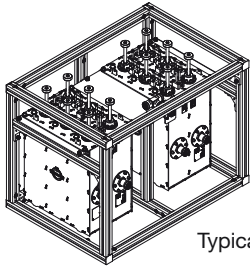
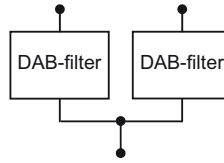


BAND 3 DAB STARPOINT COMBINERS

- compact design
- for 1.54 MHz block width
- integrated mask filters for DAB and T-DMB
- temperature compensated



Typical design

Part number	BN 57 49 04 with cross coupling	BN 57 46 17 without cross coupling	BN 57 46 80 with cross coupling	
Frequency range	174 - 240 MHz		170 - 240 MHz	
Block spacing	≥ 1			
Narrow band inputs	7-16 female			
Filter type integrated cavities/size	6/100 ≡ BN 617116	6/150 ≡ BN 617171	6/150 ≡ BN 617144	
Temperature stability	≤ 1 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	≤ 600 W	≤ 1.5 kW	≤ 1.6 kW	
Tuning instruction	AS6033	AS6010	AS6137	AS6149
Insertion loss & Mask filtering (alternative tuning on request)	f_0 ≤ 1.0 dB $f_0 \pm 0.77$ MHz ≤ 2.3 dB $f_0 \pm 0.97$ MHz ≥ 15 dB $f_0 \pm 1.75$ MHz ≥ 45 dB $f_0 \pm 2.2$ MHz ≥ 53 dB $f_0 \pm 3.0$ MHz ≥ 53 dB	f_0 ≤ 1.0 dB $f_0 \pm 0.77$ MHz ≤ 1.6 dB $f_0 \pm 0.97$ MHz ≥ 8 dB $f_0 \pm 1.75$ MHz ≥ 43 dB $f_0 \pm 2.2$ MHz ≥ 53 dB $f_0 \pm 3.0$ MHz ≥ 73 dB	f_0 ≤ 0.75 dB $f_0 \pm 0.77$ MHz ≤ 1.6 dB $f_0 \pm 0.97$ MHz ≥ 15 dB $f_0 \pm 1.75$ MHz ≥ 45 dB $f_0 \pm 2.2$ MHz ≥ 58 dB $f_0 \pm 3.0$ MHz ≥ 52 dB	≤ 0.65 dB ≤ 0.90 dB n.d. ≥ 15 dB ≥ 40 dB ≥ 50 dB
Group delay variation	$\Delta\tau \leq 1200$ ns	$\Delta\tau \leq 700$ ns	$\Delta\tau \leq 1000$ ns	$\Delta\tau \leq 400$ ns
Output	7-16 female		1 5/8" EIA	
Isolation between inputs	≥ 35 dB			
VSWR	≤ 1.2			
Dimensions (L x W x H) mm	550 x 448 x 500		750 x 550 x 750	
Weight	≈ 55 kg		≈ 90 kg	
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“			