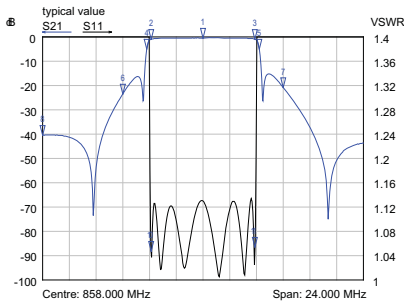
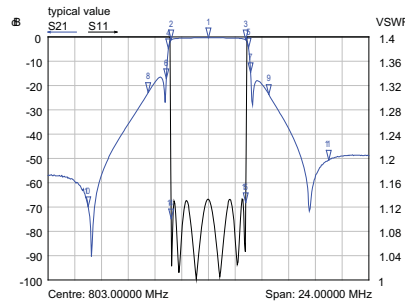


4 KW - 12.5 KW UHF DTV BANDPASS FILTER

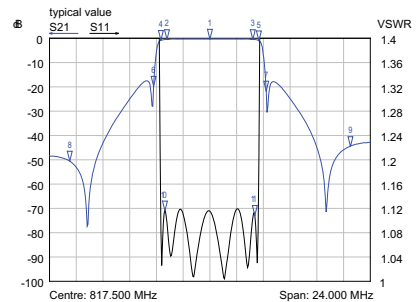
- mask filter for DTV and ATV
- for 6, 7 and 8 MHz channel bandwidth
- with cross coupling (notch function)
- tuneable within the whole UHF range
- temperature compensated
- installation horizontally or vertically
- DC block
- natural or liquid cooling



Typical diagram AS6194



Typical diagram AS6185



Typical diagram AS6290

Part number / Connectors	BN 61 65 40 C0010 1 5/8" EIA	BN 61 65 50 C0020 3 1/8" SMS unflanged BN 61 65 50 C0021 1 5/8" EIA BN 61 65 50 C0022 3 1/8" EIA male
Cooling	natural cooling	liquid cooling
Frequency range	470 - 860 MHz	
Number / Size of cavities	6 / 200	
Harmonics attenuation	≥ 50 dB for f ≤ 860 MHz	
Mask filtering	DVB-T @ 8 MHz ($\dot{U}/U_{rms} = 13$ dB)	ISDB-T @ 6 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.	natural cooling ≤ 5 kW liquid cooling 1 5/8" input ≤ 7 kW liquid cooling 3 1/8" input ≤ 12.5 kW @ 0 - 500 m ≤ 10 kW @ 2000 m ≤ 8 kW @ 3200 m	natural cooling ≤ 4 kW liquid cooling 1 5/8" input ≤ 7 kW liquid cooling 3 1/8" input ≤ 10 kW @ 0 - 500 m ≤ 8 kW @ 2000 m ≤ 6 kW @ 3400 m
Tuning instruction	AS6194 470 MHz 860 MHz	AS6185 470 MHz 803 MHz
Insertion loss & Mask filtering (alternative tuning on request)	f_0 ≤ 0.20 dB ≤ 0.35 dB $f_0 \pm 3.805$ ≤ 0.60 dB ≤ 0.90 dB $f_0 \pm 3.885$ ≤ 0.75 dB ≤ 1.05 dB $f_0 \pm 4.2$ ≥ 4 dB $f_0 \pm 6.0$ ≥ 20 dB $f_0 \pm 12.0$ ≥ 40 dB	f_0 ≤ 0.3 dB ≤ 0.45 dB $f_0 \pm 2.79$ ≤ 0.9 dB ≤ 1.30 dB $f_0 \pm 3.00$ ≥ 4 dB $f_0 \pm 3.15$ ≥ 8 dB $f_0 \pm 4.5$ ≥ 23 dB $f_0 \pm 9.0$ ≥ 48 dB $f_0 \pm 15.0$ ≥ 50 dB
VSWR (pass band range)	≤ 1.15	≤ 1.15
Group delay variation	$\Delta\tau \leq 350$ ns	$\Delta\tau \leq 500$ ns
Temperature stability	≤ 2 kHz / K	
Dimensions (L x W x H) mm	671 x 450 x 440	666 x 450 x 440 BN 61 65 50 C0020 671 x 450 x 440 BN 61 65 50 C0021 690 x 450 x 440 BN 61 65 50 C0022
Weight	ca. 47 kg	ca. 56 kg
Coolant / Flow rate	-	mix: glycol and water BN 15 45 67 / ≥ 3 l/min
Temperature of the coolant	-	20 °C - 60 °C
Cooling interface	-	for hose with inner width 3/4"
Material of cooling	-	stainless steel pipe
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“	