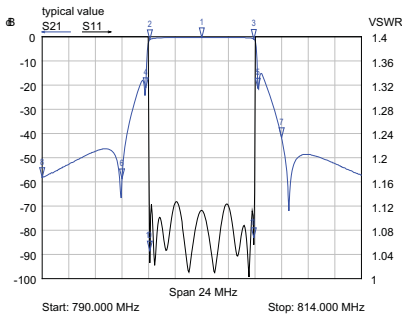


8.5 KW - 16.5 KW UHF DTV BANDPASS FILTER

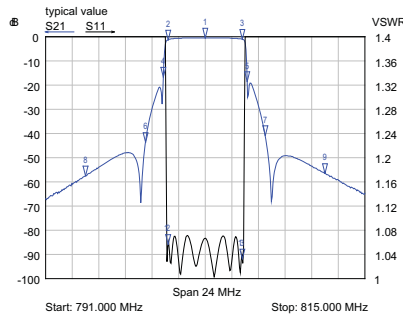
- mask filter for DTV and ATV
- for 6, 7 and 8 MHz channel bandwidth
- with cross coupling (notch function)
- tuneable within the whole UHF range
- temperature compensated
- installation horizontally or vertically
- DC block
- natural or liquid cooling



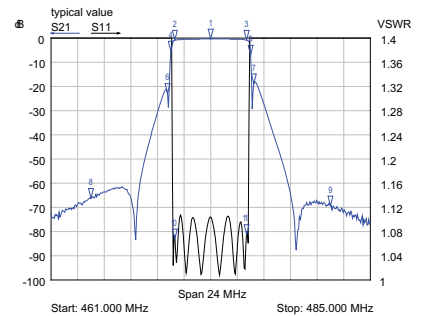
Bandpassfilter
Bandpass Filters



Typical diagram AS8124



Typical diagram AS8128



Typical diagram AS8127

Part number / Connectors	BN 61 66 70 C1041 3 1/8" SMS unflanged BN 61 66 70 C1043 3 1/8" EIA	BN 61 66 70 C2041 3 1/8" SMS unflanged BN 61 66 70 C2043 3 1/8" EIA	
Cooling	natural cooling	liquid cooling	
Frequency range	470 - 790 MHz		
Number / Size of cavities	8 / 230		
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)	ATSC @ 6 MHz ($\dot{U}/U_{rms} = 11$ 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 ≤ 8.5 kW liquid cooling ≤ 16.5 kW @ 0 - 500 m ≤ 14 kW @ 1600 m ≤ 12 kW @ 2400 m ≤ 10 kW @ 3400 m ≤ 8 kW @ 4200 m	natural cooling ≤ 6.75 kW liquid cooling ≤ 13.5 kW @ 0 - 500 m ≤ 12 kW @ 1200 m ≤ 10 kW @ 2400 m ≤ 8 kW @ 3400 m ≤ 6 kW @ 4600 m	natural cooling ≤ 6.75 kW liquid cooling ≤ 16.5 kW @ 0 - 500 m ≤ 14 kW @ 1600 m ≤ 12 kW @ 2400 m ≤ 10 kW @ 3400 m ≤ 8 kW @ 4200 m
Tuning instruction	AS8124	AS8128	AS8127
Insertion loss & Mask filtering (alternative tuning on request)	470 MHz 790 MHz f_0 ≤ 0.30 dB ≤ 0.30 dB $f_0 \pm 3.805$ ≤ 0.95 dB ≤ 1.00 dB $f_0 \pm 3.885$ ≤ 1.15 dB ≤ 1.25 dB $f_0 \pm 4.20$ ≥ 15 dB $f_0 \pm 6.00$ ≥ 40 dB $f_0 \pm 12.0$ ≥ 55 dB	470 MHz 790 MHz f_0 ≤ 0.35 dB ≤ 0.40 dB $f_0 \pm 2.79$ ≤ 1.05 dB ≤ 1.10 dB $f_0 \pm 3.15$ ≥ 15 dB $f_0 \pm 4.50$ ≥ 30 dB $f_0 \pm 9.00$ ≥ 55 dB $f_0 \pm 15.0$ ≥ 65 dB	470 MHz 790 MHz f_0 ≤ 0.35 dB ≤ 0.40 dB $f_0 \pm 2.69$ ≤ 0.90 dB ≤ 1.00 dB $f_0 \pm 3.00$ ≥ 4 dB $f_0 \pm 3.25$ ≥ 18 dB $f_0 \pm 9.00$ ≥ 64 dB
VSWR (pass band range)	≤ 1.15	≤ 1.085	≤ 1.15
Group delay variation	$\Delta\tau \leq 700$ ns	$\Delta\tau \leq 550$ ns	$\Delta\tau \leq 450$ ns
Temperature stability	≤ 2 kHz / K		
Dimensions (L x W x H) mm	1006 x 570 x 352 BN 61 66 70 C1041 1030 x 570 x 352 BN 61 66 70 C1043	1006 x 570 x 352 BN 61 66 70 C2041 1030 x 570 x 352 BN 61 66 70 C2043	
Weight	ca. 72 kg		
Coolant / Flow rate	–	mix: glycol and water BN 15 45 67 / ≥ 3 l/min	
Temperature of the coolant	–	10 °C - 55 °C	
Cooling interface	–	stainless steel tube 12 mm x 1 mm unflanged	
Cooling accessories	–	see page annex	
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“		