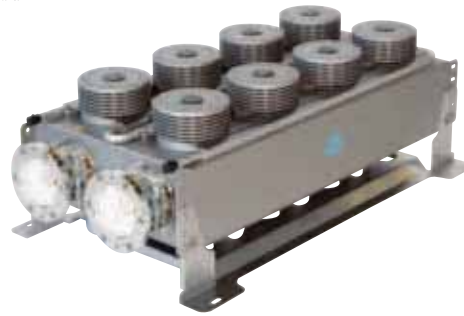
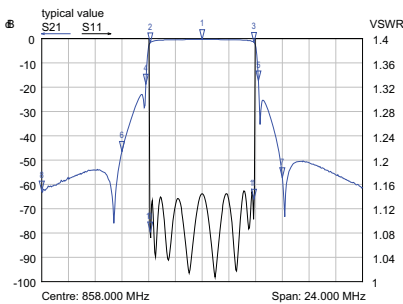


3 KW - 6.25 KW UHF DTV BANDPASS FILTER

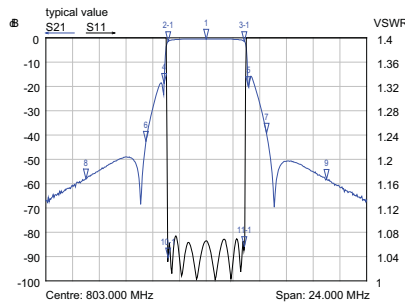
- mask filter for DTV and ATV
- for 6, 7 and 8 MHz channel bandwidth
- with cross coupling (notch function)
- tuneable within the whole UHF range
- temperature compensated
- DC block
- installation horizontally or vertically
- low profile design
- natural or liquid cooling



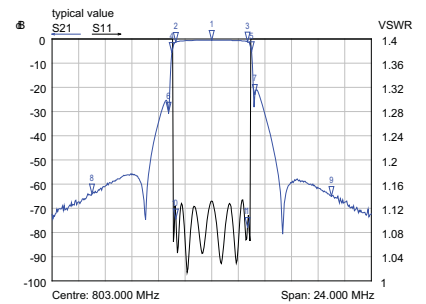
Bandpassfilter
Bandpass Filters



Typical diagram AS8100



Typical diagram AS8104



Typical diagram AS8103

Part number / Connectors	BN 61 66 66 C1031 1 5/8" SMS unflanged BN 61 66 66 C1033 1 5/8" EIA		BN 61 66 66 C2041 3 1/8" SMS unflanged BN 61 66 66 C2043 3 1/8" EIA	
Cooling	natural cooling		liquid cooling	
Frequency range	470 - 860 MHz			
Number / Size of cavities	8 / 170			
Harmonics attenuation	≥ 50 dB for f ≤ 1000 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	≤ 3.75 kW natural cooling ≤ 6.25 kW liquid cooling		≤ 3.0 kW natural cooling ≤ 5.0 kW liquid cooling	
Tuning instruction	AS8100		AS8104	
Insertion loss & Mask filtering (alternative tuning on request)	470 MHz 860 MHz		470 MHz 803 MHz	
	f_0	≤ 0.35 dB ≤ 0.45 dB	f_0	≤ 0.4 dB ≤ 0.5 dB
	$f_0 \pm 3.805$	≤ 1.10 dB ≤ 1.80 dB	$f_0 \pm 2.79$	≤ 1.3 dB ≤ 1.7 dB
	$f_0 \pm 3.885$	≤ 1.40 dB ≤ 2.00 dB	$f_0 \pm 3.15$	≥ 12 dB
	$f_0 \pm 4.2$	≥ 15 dB	$f_0 \pm 4.5$	≥ 28 dB
	$f_0 \pm 6.0$	≥ 40 dB	$f_0 \pm 9.0$	≥ 54 dB
	$f_0 \pm 12.0$	≥ 55 dB		
VSWR (pass band range)	≤ 1.15		≤ 1.09	
Group delay variation	$\Delta\tau \leq 700$ ns		$\Delta\tau \leq 650$ ns	
Temperature stability	≤ 2 kHz / K			
Dimensions (L x W x H) mm	773 x 448 x 271	BN 61 66 66 C1031	778 x 448 x 271	BN 61 66 66 C2041
	789 x 448 x 271	BN 61 66 66 C1033	801 x 448 x 271	BN 61 66 66 C2043
Weight	ca. 46 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	-		aluminium tube 12 mm x 1 mm unflanged	
Cooling accessories	-		see appendix	
Environmental conditions	for limitations see „Environmental Conditions for Broadcast Products“			