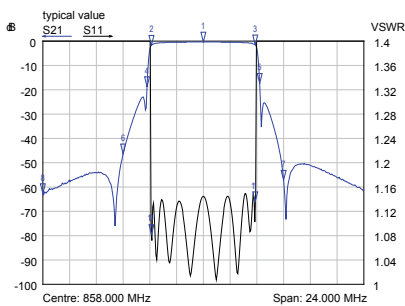


## 3 kW - 6.25 kW UHF DTV Bandpass Filters

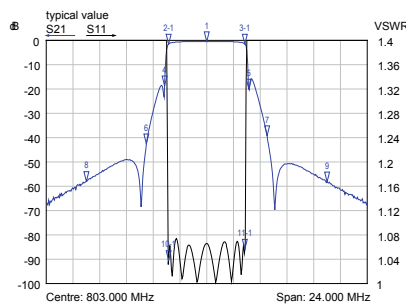
- Mask filters for DTV and ATV
- For 6, 7 and 8 MHz channel bandwidth
- With cross coupling (notch function)
- Tuneable within the whole UHF range
- Temperature compensated
- DC block
- Installation horizontally or vertically
- Low profile design
- Natural, fan or liquid cooling



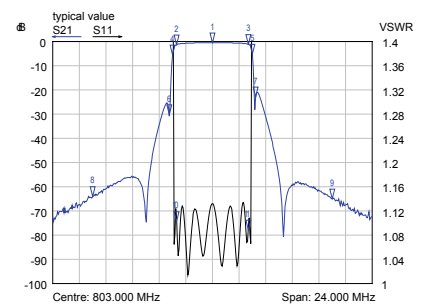
Bandpass Filters



Typical diagram AS8182



Typical diagram AS8183



Typical diagram AS8184

Part Number	BN 616578C1031	BN 616578C2031	BN 616578C4031
Connector	1 5/8" SMS Unflanged BN 616578C1033 1 5/8" EIA	1 5/8" SMS Unflanged BN 616578C2033 1 5/8" EIA BN 616578C2041 3 1/8" SMS Unflanged BN 616578C2043 3 1/8" EIA	1 5/8" SMS Unflanged BN 616578C4033 1 5/8" EIA BN 616578C4041 3 1/8" SMS Unflanged BN 616578C4043 3 1/8" EIA
Cooling	Natural Cooling	Liquid Cooling	Fan Cooling
Frequency range	470 - 700 MHz		
Number/size of cavities	8/171		
Harmonics attenuation	≥ 50 dB for f ≤ 1000 MHz		
Mask filtering	DVB-T @ 8 MHz (Û/Urms = 13 dB)	ISDB-T @ 6 MHz (Û/Urms = 13 dB)	ATSC 1.0 @ 6 MHz (Û/Urms = 11 dB)
Average input power	≤ 3.0 kW natural cooling ≤ 6.25 kW forced cooling	≤ 2.4 kW natural cooling ≤ 5.0 kW forced cooling	≤ 2.4 kW natural cooling ≤ 5.0 kW forced cooling
Tuning instruction	AS8182	AS8183	AS8184
Insertion loss & mask filtering (alternative tuning on request)	470 MHz 700 MHz f <sub>0</sub> ≤ 0.35 dB ≤ 0.45 dB f <sub>0</sub> ± 3.805 ≤ 1.10 dB ≤ 1.80 dB f <sub>0</sub> ± 3.885 ≤ 1.40 dB ≤ 2.00 dB f <sub>0</sub> ± 4.2 ≥ 15 dB f <sub>0</sub> ± 6.0 ≥ 40 dB f <sub>0</sub> ± 12.0 ≥ 55 dB	470 MHz 700 MHz f <sub>0</sub> ≤ 0.4 dB ≤ 0.50 dB f <sub>0</sub> ± 2.79 ≤ 1.3 dB ≤ 1.70 dB f <sub>0</sub> ± 3.15 ≥ 12 dB f <sub>0</sub> ± 4.5 ≥ 28 dB f <sub>0</sub> ± 9.0 ≥ 54 dB	470 MHz 700 MHz f <sub>0</sub> ≤ 0.45 dB ≤ 0.55 dB f <sub>0</sub> ± 2.69 ≤ 1.05 dB ≤ 1.40 dB f <sub>0</sub> ± 3.00 ≥ 4 dB f <sub>0</sub> ± 3.25 ≥ 18 dB f <sub>0</sub> ± 9.00 ≥ 64 dB
VSWR (passband range)	≤ 1.15	≤ 1.15	≤ 1.15
Group delay variation	Δτ ≤ 700 ns	Δτ ≤ 650 ns	Δτ ≤ 500 ns
Temperature stability	≤ 2 kHz / K		
Dimensions (L x W x H) mm	≈ 730 x 352 x 330		
Weight	≈ 38 kg		
Coolant/flow rate	–	Mix: glycol and water BN 154567 / ≥ 3 l/min	Air
Temperature of the coolant	–	10 °C - 55 °C	–
Cooling interface	–	Stainless steele tube 12 x 1 mm unflanged ending straight at connector side (on request: ending straight or upwards at rear side)	Power supply for fans: 24 V DC Typ. 25 W Connector AMP 1-480703-0
Cooling accessories	–	See "Accessories for Fan- and Liquid-Cooled Filters".	
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“.		