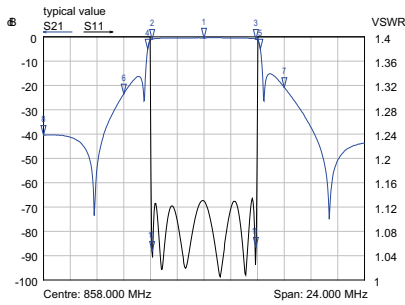


## 4 kW - 12.5 kW UHF DTV Bandpass Filters

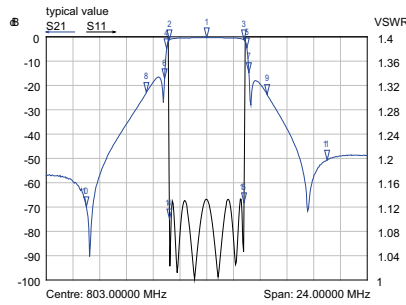
- Mask filters for DTV and ATV
- For 6, 7 and 8 MHz channel bandwidth
- With cross coupling (notch function)
- Tuneable within the whole UHF range
- Temperature compensated
- Installation horizontally or vertically
- DC block
- Natural, fan or liquid cooling



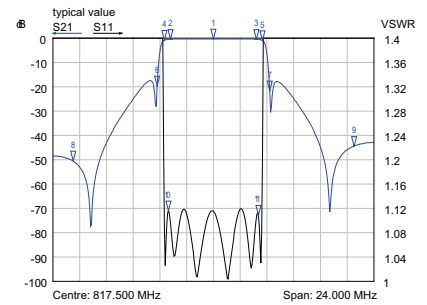
Bandpass Filters



Typical diagram AS6194



Typical diagram AS6185



Typical diagram AS6290

Part Number Connector	BN 616540C1031 1 5/8" SMS Unflanged BN 616540C1033 1 5/8" EIA	BN 616540C2033 1 5/8" EIA BN 616540C2041 3 1/8" SMS Unflanged BN 616540C2043 3 1/8" EIA	BN 616540C4033 1 5/8" EIA BN 616540C4041 3 1/8" SMS Unflanged BN 616540C4043 3 1/8" EIA
Cooling	Natural Cooling	Liquid Cooling	Fan 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)	DVB-T @ 7 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.	≤ 5 kW natural cooling ≤ 7 kW forced cooling 1 5/8" input forced cooling 3 1/8" input ≤ 12.5 kW @ 0 - 500 m ≤ 10 kW @ 2000 m ≤ 8 kW @ 3200 m	≤ 4 kW natural cooling ≤ 7 kW forced cooling 1 5/8" input forced cooling 3 1/8" input ≤ 10 kW @ 0 - 500 m ≤ 8 kW @ 2000 m ≤ 6 kW @ 3400 m	≤ 4.5 kW natural cooling ≤ 7 kW forced cooling 1 5/8" input forced 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	AS6290 470 MHz 820 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	$f_0$ ≤ 0.20 dB ≤ 0.30 dB $f_0 \pm 3.2$ ≤ 0.35 dB ≤ 0.45 dB $f_0 \pm 4.2$ ≥ 13 dB $f_0 \pm 10.5$ ≥ 38 dB
VSWR (passband range)	≤ 1.15	≤ 1.15	≤ 1.15
Group delay variation	$\Delta\tau$ ≤ 350 ns	$\Delta\tau$ ≤ 500 ns	$\Delta\tau$ ≤ 150 ns
Temperature stability	≤ 2 kHz / K		
Dimensions (L x W x H) mm	≈ 690 x 450 x 440		
Weight	≈ 47 kg	≈ 50 kg	≈ 56 kg
Coolant/flow rate	-	Mix: glycol and water BN 154567 / ≥ 3 l/min	Air
Temperature of the coolant	-	20 °C - 60 °C	-
Cooling interface	-	Stainless steel tube 12 x 1 mm unflanged ending straight at the connector side	Power supply for fans: 24 V DC / typ. 17W 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“.		