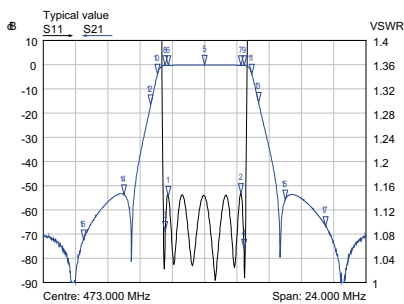


## 36 kW ATSC Bandpass Filter

- Mask filters for ATSC
- For 6 MHz channel bandwidth
- With cross coupling (notch function)
- Temperature compensated
- Installation standing
- DC block
- Natural or liquid cooling



Bandpass Filters



Typical diagram AS6588

Part Number	BN 616509C1051	BN 616509C2051	
Cooling	Natural Cooling	Liquid Cooling	
Frequency range	470 - 608 MHz		
Number/size of cavities	6/300		
Harmonics attenuation	≥ 67 dB for f ≤ 650 MHz		
<b>Mask filtering</b>	ATSC 1.0 or ATSC 3.0 @ 6 MHz ( $\dot{U}/U_{rms} = 11$ dB or 13 dB)	ATSC 1.0 @ 6 MHz ( $\dot{U}/U_{rms} = 11$ dB)	ATSC 3.0 @ 6 MHz ( $\dot{U}/U_{rms} = 13$ dB)
Average input power	≤ 15 kW	≤ 36 kW @ 0 - 500 m ≤ 36 kW @ 1000 m ≤ 36 kW @ 2000 m ≤ 32.4 kW @ 3000 m ≤ 27 kW @ 4000 m	≤ 36 kW @ 0 - 500 m ≤ 36 kW @ 1000 m ≤ 31 kW @ 2000 m ≤ 28 kW @ 3000 m ≤ 23.3 kW @ 4000 m
Tuning instruction	AS6588		
Insertion loss & mask filtering (alternative tuning on request)	$f_0 \pm 2.69 \leq 0.24$ dB (rms) $f_0 \pm 2.92 \leq 0.24$ dB (rms) $f_0 \leq 0.22$ dB $f_0 \pm 2.69 \leq 0.35$ dB $f_0 \pm 2.92 \leq 0.40$ dB $f_0 \pm 3.50 \geq 3.00$ dB $f_0 \pm 4.00 \geq 8.00$ dB $f_0 \pm 6.00 \geq 30.0$ dB $f_0 \pm 9.00 \geq 65.0$ dB		
VSWR (passband range)	≤ 1.15		
Group delay variation	$\Delta\tau \leq 220$ ns		
Temperature stability	≤ 2 kHz / K		
Connectors	4 1/2" SMS unflanged		
Dimensions (L x W x H) mm	≈ 630 x 720 x 1175		
Weight	≈ 115 kg		
Coolant/flow rate	–	Mix: glycol and water <b>BN 154567</b> ≥ 6 l/min	
Temperature of the coolant	–	10 °C - 55 °C	
Cooling interface	–	Stainless steel pipe with thread G 1/2" (DIN EN ISO 228-1) – adaptors available on request	
Cooling accessories	–	See "Accessories for Fan- and Liquid-Cooled Filters".	
Environmental conditions	For limitations see „Environmental Conditions for Broadcast Products“(TD-00060).		