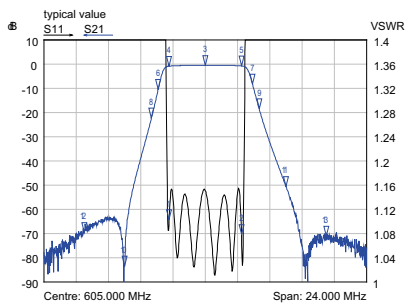


3 kW - 6 kW UHF DTV Bandpass Filters

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



Typical diagram AS6585

Part Number Connector	BN 616577C1031 1 5/8" SMS Unflanged BN 616577C1033 1 5/8" EIA	BN 616577C2031 1 5/8" SMS Unflanged BN 616577C2033 1 5/8" EIA	BN 616577C4031 1 5/8" SMS Unflanged BN 616577C4033 1 5/8" EIA																								
Cooling	Natural Cooling	Liquid Cooling	Fan Cooling																								
Frequency range	470 - 700 MHz																										
Number/size of cavities	6/171																										
Harmonics attenuation	≥ 67 dB for f ≤ 800 MHz																										
Mask filtering	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	≤ 3.0 kW natural cooling ≤ 6.0 kW forced cooling																										
Tuning instruction	AS6585																										
Insertion loss & mask filtering (alternative tuning on request)	<table border="0"> <tr> <td></td> <td>470 MHz</td> <td>700 MHz</td> </tr> <tr> <td>f_0</td> <td>≤ 0.40 dB</td> <td>≤ 0.50 dB</td> </tr> <tr> <td>$f_0 \pm 2.69$</td> <td>≤ 0.60 dB</td> <td>≤ 0.65 dB</td> </tr> <tr> <td>$f_0 \pm 2.92$</td> <td>≤ 0.75 dB</td> <td>≤ 0.85 dB</td> </tr> <tr> <td>$f_0 \pm 3.50$</td> <td>≥ 3 dB</td> <td></td> </tr> <tr> <td>$f_0 \pm 4.0$</td> <td>≥ 8 dB</td> <td></td> </tr> <tr> <td>$f_0 \pm 6.0$</td> <td>≥ 30 dB</td> <td></td> </tr> <tr> <td>$f_0 \pm 9.0$</td> <td>≥ 65 dB</td> <td></td> </tr> </table>				470 MHz	700 MHz	f_0	≤ 0.40 dB	≤ 0.50 dB	$f_0 \pm 2.69$	≤ 0.60 dB	≤ 0.65 dB	$f_0 \pm 2.92$	≤ 0.75 dB	≤ 0.85 dB	$f_0 \pm 3.50$	≥ 3 dB		$f_0 \pm 4.0$	≥ 8 dB		$f_0 \pm 6.0$	≥ 30 dB		$f_0 \pm 9.0$	≥ 65 dB	
	470 MHz	700 MHz																									
f_0	≤ 0.40 dB	≤ 0.50 dB																									
$f_0 \pm 2.69$	≤ 0.60 dB	≤ 0.65 dB																									
$f_0 \pm 2.92$	≤ 0.75 dB	≤ 0.85 dB																									
$f_0 \pm 3.50$	≥ 3 dB																										
$f_0 \pm 4.0$	≥ 8 dB																										
$f_0 \pm 6.0$	≥ 30 dB																										
$f_0 \pm 9.0$	≥ 65 dB																										
VSWR (passband range)	≤ 1.15																										
Group delay variation	$\Delta\tau \leq 200$ ns																										
Temperature stability	≤ 2 kHz / K																										
Dimensions (L x W x H) mm	≈ 559 x 352 x 330																										
Weight	≈ 29 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 steel 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. 17 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“.																										