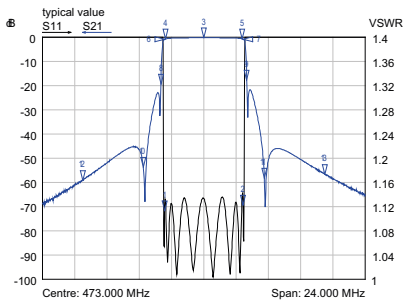
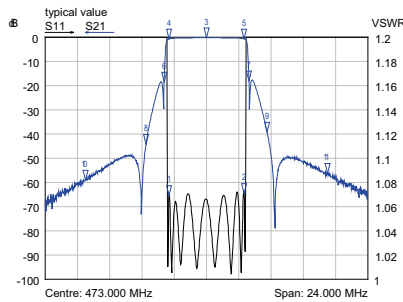


12 kW - 31 kW UHF DTV Bandpass Filter

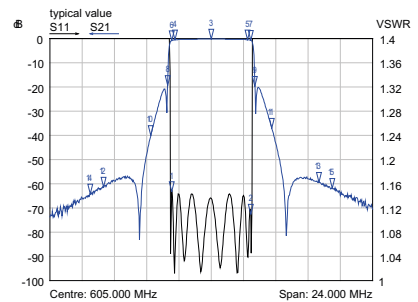
- Mask filters for DTV and ATV
- For 6 MHz channel bandwidth
- With cross coupling (notch function)
- Temperature compensated
- Installation standing
- DC block
- Natural or liquid cooling



Typical diagram AS8221



Typical diagram AS8220



Typical diagram AS8218

| Part Number | BN 616508C1051 | BN 616508C2051 | |
|--|---|---|---|
| Cooling | Natural Cooling | Liquid Cooling | |
| Frequency range | 470 - 608 MHz | | |
| Number/size of cavities | 8/300 | | |
| Harmonics attenuation | ≥ 67 dB for f ≤ 700 MHz | | |
| Mask filtering | DVB-T2 @ 6 MHz ($\dot{U}/U_{rms} = 13$ dB) | ISDB-T @ 6 MHz ($\dot{U}/U_{rms} = 13$ dB) | ATSC 3.0 @ 6 MHz ($\dot{U}/U_{rms} = 13$ dB) |
| Average input power The input power of liquid cooled filters must be reduced if installed more than 2300 m above sea level. | ≤ 12 kW natural cooling ≤ 31 kW forced cooling | ≤ 12 kW natural cooling ≤ 31 kW forced cooling | ≤ 12 kW natural cooling ≤ 31 kW forced cooling |
| Tuning instruction | AS8221 | AS8220 | AS8218 |
| Insertion loss & mask filtering (alternative tuning on request) | $f_0 \pm 2.855 \leq 0.32$ dB (rms) $f_0 \pm 2.913 \leq 0.33$ dB (rms) $f_0 \leq 0.25$ dB $f_0 \pm 2.855 \leq 0.80$ dB $f_0 \pm 2.913 \leq 0.90$ dB $f_0 \pm 3.20 \geq 15.0$ dB $f_0 \pm 4.50 \geq 40.0$ dB $f_0 \pm 9.00 \geq 55.0$ dB | $f_0 \pm 2.79 \leq 0.32$ dB (rms) $f_0 \leq 0.25$ dB $f_0 \pm 2.79 \leq 0.70$ dB $f_0 \pm 3.15 \geq 15.0$ dB $f_0 \pm 4.50 \geq 30.0$ dB $f_0 \pm 9.00 \geq 55.0$ dB | $f_0 \pm 2.69 \leq 0.31$ dB (rms) $f_0 \pm 2.92 \leq 0.33$ dB (rms) $f_0 \leq 0.26$ dB $f_0 \pm 2.69 \leq 0.55$ dB $f_0 \pm 2.92 \leq 0.85$ dB $f_0 \pm 3.25 \geq 15.0$ dB $f_0 \pm 4.50 \geq 29.0$ dB $f_0 \pm 9.00 \geq 67.0$ dB |
| VSWR (passband range) | ≤ 1.15 | ≤ 1.09 | ≤ 1.15 |
| Group delay variation | $\Delta\tau \leq 700$ ns | $\Delta\tau \leq 500$ ns | $\Delta\tau \leq 700$ ns |
| Temperature stability | ≤ 2 kHz / K | | |
| Connectors | 4 1/2" SMS unflanged | | |
| Dimensions (L x W x H) mm | ≈ 630 x 720 x 1480 | | |
| Weight | ≈ 160 kg | | |
| Coolant/flow rate | – | Mix: glycol and water BN 154567 ≥ 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). | | |