

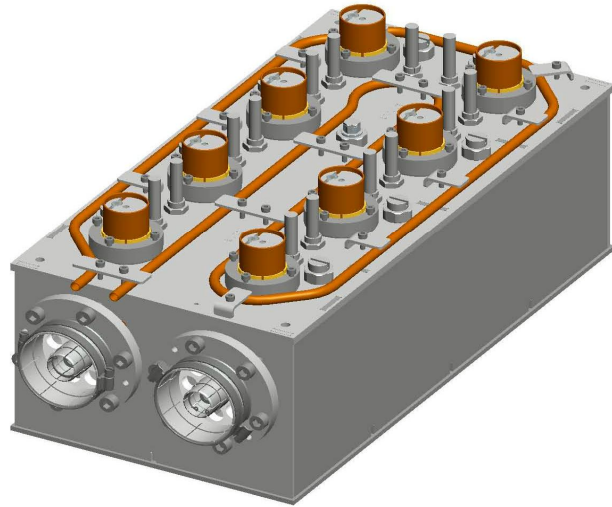
UHF Bandpass filter (liquid cooled)

5 kW rms 8 poles

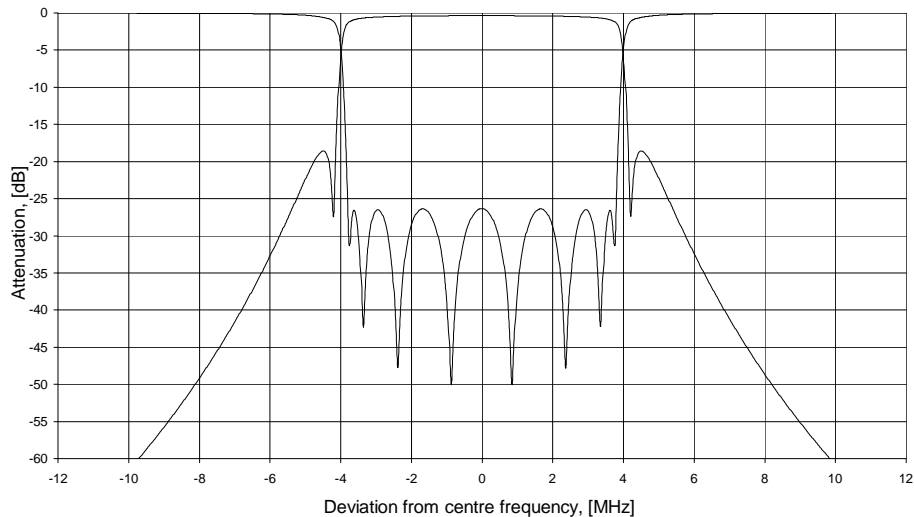
BAND IV-V



| SPECIFICATIONS | 140 mm series | Option |
|--------------------------|-------------------------------|---|
| FREQUENCY | 470 - 862 MHz | - |
| BANDWIDTH | 6 - 8 MHz | - |
| ORDER | 8 Poles single cross coupling | 8 Poles with or without double cross coupling |
| ATV | Spurious suppress | - |
| DVB | Critical mask | - |
| ATSC | Stringent mask | - |
| ISDB | Critical mask | - |
| IMPEDANCE | 50 Ohm | - |
| RETURN LOSS (VSWR) | >26 dB (<1.11) | - |
| TEMPERATUR STABILITY | <2 kHz / °C | - |
| MAX PRODUCT TEMPERATURE | 70 °C | - |
| ENVIROMENTAL CONDITION | -5 to 70 °C IP40 | - |
| CONNECTORS | 1 5/8" unflange | 7/16-m/f, 3 1/8" unflange |
| DIMENSIONS (L X W X H) | 658x335x245-315 mm | - |
| (Inch) | (25.9x13.2x9.6-12.4 in) | - |
| WEIGHT | 40 kg (77.2 lb) | - |
| FRAME | Stand alone | 19" subrack |
| COLOUR | Frosted black | - |
| LIQUID FLOW | 6 l/min (1.6 gal liq./min) | |
| COOLING LIQUID TEMP. | <=50°C (<=122°F) | |
| LIQUID TEMP. RAISE @ 5kW | 1.6°C (2.9°F) | |
| LIQUID CONNECTION | 10mm | |



Attenuation & Return loss



| TYPICAL DATA * | 8 MHz DVB-T | 6 MHz ISDB-T | 6 MHz ATSC |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| ART. NO. | BPF48C14A-1W11 | BPF48C14A-1W11 | BPF48C14A-1W11 |
| INSERTION LOSS | | | |
| Avg. signal bandwidth | <0.49 dB | <0.62 dB | <0.48 dB |
| Center frequency | <0.37 dB | <0.49 dB | <0.43 dB |
| Signal band edge | ± 3.8 MHz <1.40 dB | ± 2.79 MHz <1.36 dB | ± 2.69 MHz <0.63 dB |
| | ± 4.2 MHz >15 dB | ± 3.15 MHz >15 dB | ± 3.5 MHz >1.3 dB |
| | ± 6.0 MHz >26 dB | ± 4.5 MHz >31 dB | ± 6 MHz >29 dB |
| | ± 12.0 MHz >51 dB | ± 9.0 MHz >61 dB | ± 9 MHz >63 dB |
| GROUP DELAY | <540 ns | <470 ns | <105 ns |
| MAX INPUT POWER RATING | 5 kW / 13 dB (crest factor) | 5 kW / 13 dB (crest factor) | 5 kW / 11 dB (crest factor) |
| MASK COMPLIANT | Critical mask | Critical mask | Stringent mask |

* Data in table is typical data at 666 MHz. To fulfil mask transmitter shoulder level must be >36 dB. The filter can be tuned for other specification or bandwidth.