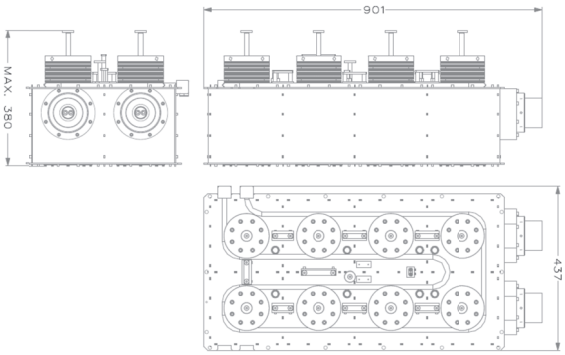
FLDV-198 series

UHF DTV 8 poles bandpass filter • ≤ 11 kW

Electrical Specifications

Filter type	Bandpass coaxial	
Order	8 with double cross coupling	
Cavity size	200 mm	
Frequency range	470-862 MHz	
Impedance	50 Ohm	
Channel bandwidth	6, 7, 8 MHz	
Maximum RMS output power handling up to 3000M ASL	BW 6, 7 MHz	BW 8 MHz
Natural Cooling (FLDV-198HS)	4 kW	5 kW
Heat Sinks (FLDV-1982HS)	6 kW	8 kW
Liquid Cooling (FLDV-198LC)	10 kW	11 kW
Connectors	3 1/8" unfl. / 4 ½" unfl.	
2nd Harmonic attenuation	> 50 dB	
Thermal stability	≤ 2 kHz / ºC	
Liquid Cooling option (-LC)	Liquid (glycol and water coolant)	
Flow	2 l/min	
Liquid Cooling circuit input	3/8" NPT male	

FLDV-198 model



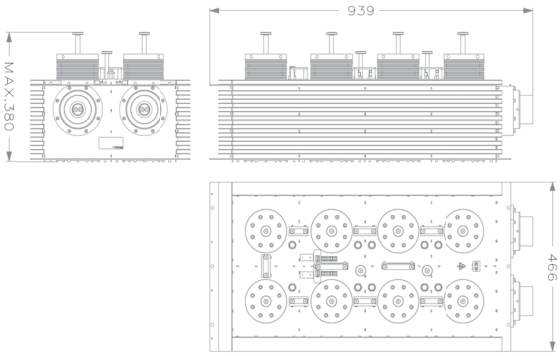
FLDV-198LC model

Mechanical & Environmental Specifications

Dimensions (W x D x H)	437 x 901 x 380 mm
Weight	53 kg
Temperature range	-10°C to +50°C
Working position	Any

Responses (1)

Channel bandwidth 8 MHz (typical DVB-T/T2)	
Insertion loss f_0	≤ 0.45 dB (470 MHz < 0.35 dB)
Insertion loss $f_0 \pm 3.8$ MHz	≤ 1.1 dB (f0 ± 3.9 MHz < 1.5 dB)
Attenuations:	
$f_0 \pm 4.2$ MHz	> 15 dB
$f_0 \pm 6$ MHz	> 40 dB
$f_0 \pm 12$ MHz	> 55 dB
VSWR $f_0 \pm 3.8$ MHz	1.15:1 ($f_0 \pm 3.9$ MHz < 1.20:1)
Group delay $f_0 \pm 3.8$ MHz	< 450 ns
Channel bandwidth 6 MHz (typical ISDB-T)	
Insertion loss f_0	≤ 0.5 dB (470MHz < 0.4 dB)
Insertion loss $f_0 \pm 2.79$ MHz	≤ 1.2 dB
Attenuations:	
$f_0 \pm 3.15$ MHz	> 15 dB
$f_0 \pm 4.5$ MHz	> 40 dB
$f_0 \pm 9$ MHz	> 45 dB
$f_0 \pm 12$ MHz	> 60 dB
VSWR $f_0 \pm 2.79$ MHz	1.15:1
Group delay $f_0 \pm 2.79$ MHz	< 500 ns
Channel bandwidth 6 MHz (typical ATSC)	
Insertion loss f_0	≤ 0.45 dB (470 MHz < 0.35 dB)
Insertion loss $f_0 \pm 2.69$ MHz	≤ 0.9 dB
Attenuations:	
$f_0 \pm 4$ MHz	> 20 dB
$f_0 \pm 4.5$ MHz	> 30 dB
$f_0 \pm 9$ MHz	> 46 dB
$f_0 \pm 12$ MHz	> 60 dB
VSWR $f_0 \pm 2.69$ MHz	1.1:1
Group delay $f_0 \pm 2.69$ MHz	< 200 ns



FLDV-1982HS model

Optional accessories

	3 1/8"	4 1/2"
Directional couplers at inputs and outputs (see page 150)	AC15-318	AC15-412
Unflanged to flanged adapters (see page 149)	TR24-125	TR30-131
Rack mounted	√	

The filter can be field retuned to any frequency within specified band

COOLING OPTIONS:

-HS: heat sink cooling
-FA: forced air cooling (fan MTBF 70.000 hours)
-LC: liquid cooling

NOTES:

(1): Other frequency responses can be supplied. Please, ask RYMSA RF.

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