

UHF DTV 8 poles bandpass filter • ≤ 5 kW   

Electrical Specifications

Filter type	Bandpass coaxial	
Order	8 with double cross coupling	
Cavity size	150 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
Heat Sinks (FLDV-158HS)	2.5 kW	2.8 kW
Forced Air Cooling (FLDV-158FA)	3.5 kW	3.8 kW
Liquid Cooling (FLDV-158LC)	4 kW	5 kW
Connectors	1 5/8" unfl./ 3 1/8" unfl.	
2 nd Harmonic attenuation	> 50 dB	
Thermal stability	≤ 2 kHz / °C	
Liquid Cooling option (-LC)	Liquid (glycol and water coolant)	
Flow	2 l/min	
Liquid Cooling circuit input	3/8" NPT male	

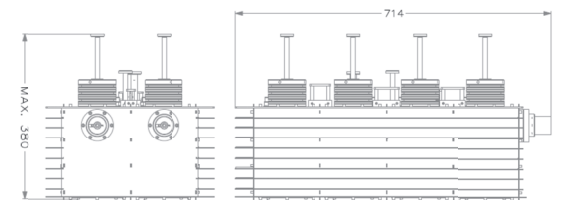


FLDV-158HS model

Mechanical & Environmental Specifications

Dimensions (W x D x H) (-HS)	388 x 758 x 380 mm
Weight	39 kg
Temperature range	-10°C to +50°C
Working position	Any

Responses (1)



Channel bandwidth 8 MHz (typical DVB-T/T2)

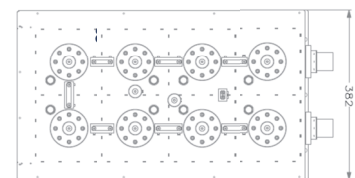
Insertion loss f_0	≤ 0.6 dB (470 MHz < 0.5 dB)
Insertion loss $f_0 \pm 3.8$ MHz	≤ 1.5 dB ($f_0 \pm 3.9$ MHz < 1.8 dB)
Attenuations:	
$f_0 \pm 4.2$ MHz	> 15 dB
$f_0 \pm 6$ MHz	> 30 dB
$f_0 \pm 12$ MHz	> 55 dB
VSWR $f_0 \pm 3.8$ MHz	1.15:1 ($f_0 \pm 3.9$ MHz < 1.22:1)
Group delay $f_0 \pm 3.8$ MHz	< 600 ns

Channel bandwidth 6 MHz (typical ISDB-T)

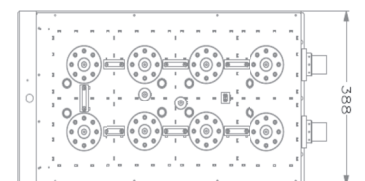
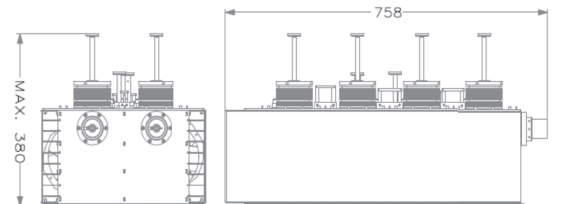
Insertion loss f_0	≤ 0.65 dB (470MHz < 0.55 dB)
Insertion loss $f_0 \pm 2.79$ MHz	≤ 1.6 dB
Attenuations:	
$f_0 \pm 3.15$ MHz	> 15 dB
$f_0 \pm 4.5$ MHz	> 30 dB
$f_0 \pm 9$ MHz	> 50 dB
$f_0 \pm 12$ MHz	> 55 dB
VSWR $f_0 \pm 2.79$ MHz	1.15:1
Group delay $f_0 \pm 2.79$ MHz	< 600 ns

Channel bandwidth 6 MHz (typical ATSC)

Insertion loss f_0	≤ 0.6 dB (470 MHz < 0.55 dB)
Insertion loss $f_0 \pm 2.69$ MHz	≤ 1.0 dB
Attenuations:	
$f_0 \pm 4$ MHz	> 15 dB
$f_0 \pm 4.5$ MHz	> 25 dB
$f_0 \pm 9$ MHz	> 50 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	< 250 ns



FLDV-158HS model



FLDV-158FA model

COOLING OPTIONS:

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

NOTES:

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

Optional accessories

	1 5/8"	3 1/8"
Directional couplers at inputs and outputs (see page 150)	AC15-158	AC15-318
Unflanged to flanged adapters (see page 149)	TR22-123	TR24-125
Rack mounted	√	

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