

UHF DTV 6 poles bandpass filter • ≤ 5 kW   

Electrical Specifications

Filter type	Bandpass coaxial	
Order	6 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-156HS)	2.5 kW	2.8 kW
Forced Air Cooling (FLDV-156FA)	3.5 kW	3.8 kW
Liquid Cooling (FLDV-156LC)	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 (-LC)	2 l/min	
Liquid Cooling circuit input (-LC)	3/8" NPT male	



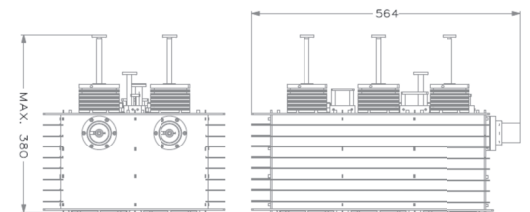
FLDV-156FA model

Mechanical & Environmental Specifications

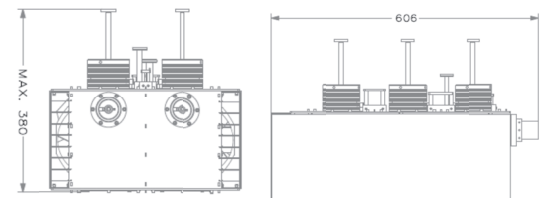
Dimensions (W x D x H) (FLDV-156HS/LC)	382 x 564 x 380 mm
Weight (FLDV-156HS/LC)	27 kg
Temperature range	-10°C to +50°C
Working position	Any

Responses ⁽¹⁾

Channel bandwidth 8 MHz (typical DVB-T/T2)	
Insertion loss f_0	≤ 0.35 dB (470 MHz < 0.3dB)
Insertion loss $f_0 \pm 3.8$ MHz	≤ 0.7 dB ($f_0 \pm 3.9$ MHz < 0.9 dB)
Attenuations:	
$f_0 \pm 4.2$ MHz	> 5 dB
$f_0 \pm 6$ MHz	> 20 dB
$f_0 \pm 12$ MHz	> 45 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	< 350 ns
Channel bandwidth 6 MHz (typical ISDB-T)	
Insertion loss f_0	≤ 0.45 dB (470MHz < 0.4 dB)
Insertion loss $f_0 \pm 2.79$ MHz	≤ 1.0 dB
Attenuations:	
$f_0 \pm 3.15$ MHz	> 5 dB
$f_0 \pm 4.5$ MHz	> 20 dB
$f_0 \pm 9$ MHz	> 40 dB
$f_0 \pm 12$ MHz	> 45 dB
VSWR $f_0 \pm 2.79$ MHz	1.15:1
Group delay $f_0 \pm 2.79$ MHz	< 400 ns
Channel bandwidth 6 MHz (typical ATSC)	
Insertion loss f_0	≤ 0.35 dB (470 MHz < 0.3 dB)
Insertion loss $f_0 \pm 2.69$ MHz	≤ 0.6 dB
Attenuations:	
$f_0 \pm 4$ MHz	> 15 dB
$f_0 \pm 4.5$ MHz	> 20 dB
$f_0 \pm 9$ MHz	> 40 dB
$f_0 \pm 12$ MHz	> 45 dB
VSWR $f_0 \pm 2.69$ MHz	1.1:1
Group delay $f_0 \pm 2.69$ MHz	< 200 ns



FLDV-156HS model



FLDV-156FA model

COOLING OPTIONS:

- AF: 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 retuned to any channel within specified band

RYMSA RF will reserve the right to make any changes without notice.