

UHF DTV 6 poles bandpass filter • ≤ 1.4 kW

**Electrical Specifications**

Filter type	Bandpass coaxial	
Order	6 with double cross coupling	
Cavity size	110 mm	
Frequency range	470-862 MHz	
Impedance	50 Ohm	
Channel bandwidth	6, 7, 8 MHz	
Maximum RMS input power handling up to 1000M ASL	BW 6, 7 MHz 1.2 kW	BW 8 MHz 1.4 kW
Connectors	DIN 7/16 (F) / EIA 7/8" flanged (F) / 1 5/8" unfl.	
2 <sup>nd</sup> Harmonic attenuation	> 50 dB	
Thermal stability	≤ 2 kHz / °C	


**Mechanical & Environmental Specifications**

Dimensions (W x D x H)	242 x 422 x 320 mm
Weight	15 kg
Temperature range	-10°C to +50°C
Working position	Any

**Responses (1)**
**Channel bandwidth 8 MHz (typical DVB-T/T2)**

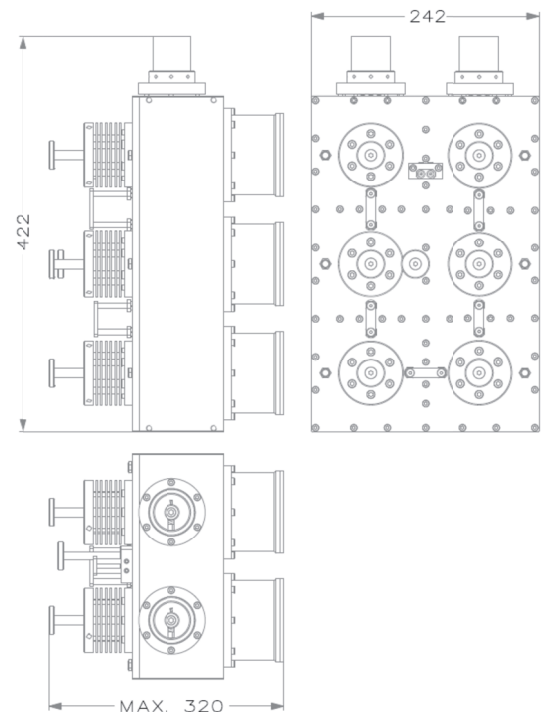
Insertion loss $f_0$	≤ 0.4 dB (470 MHz < 0.35 dB)
Insertion loss $f_0 \pm 3.8$ MHz	≤ 0.7 dB ( $f_0 \pm 3.9$ MHz < 0.9 dB)
Attenuations:	
$f_0 \pm 4.2$ MHz	> 5 dB
$f_0 \pm 6$ MHz	> 20 dB
$f_0 \pm 9$ MHz	> 30 dB
$f_0 \pm 12$ MHz	> 45 dB
VSWR $f_0 \pm 3.8$ MHz	1.15:1 ( $f_0 \pm 3.9$ MHz 1.22:1)
Group delay $f_0 \pm 3.8$ MHz	< 350 ns ( $f_0 \pm 3.9$ MHz < 450ns)

**Channel bandwidth 6 MHz (typical ISDB-T)**

Insertion loss $f_0$	≤ 0.5 dB (470 MHz < 0.45 dB)
Insertion loss $f_0 \pm 2.79$ MHz	≤ 1 dB
Attenuations:	
$f_0 \pm 3.15$ MHz	> 5 dB
$f_0 \pm 4.5$ MHz	> 25 dB
$f_0 \pm 12$ MHz	> 50 dB
VSWR $f_0 \pm 2.79$ MHz	1.15:1
Group delay $f_0 \pm 2.79$ MHz	< 450 ns

**Channel bandwidth 6 MHz (typical ATSC)**

Insertion loss $f_0$	≤ 0.4 dB (470 MHz < 0.35 dB)
Insertion loss $f_0 \pm 2.69$ MHz	≤ 0.6 dB
Attenuations:	
$f_0 \pm 4$ MHz	> 10 dB
$f_0 \pm 4.5$ MHz	> 20 dB
$f_0 \pm 9$ MHz	> 40 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


**NOTES:**

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

**Optional accessories**

	7/16	7/8"	1 5/8"
Directional couplers at inputs and outputs (see page 150)	AC15-716	AC15-078	AC15-158
Unflanged to flanged adapters (see page 149)	-	-	TR22-123
Rack mounted		√	

**The filter can be field retuned to any channel within specified band**