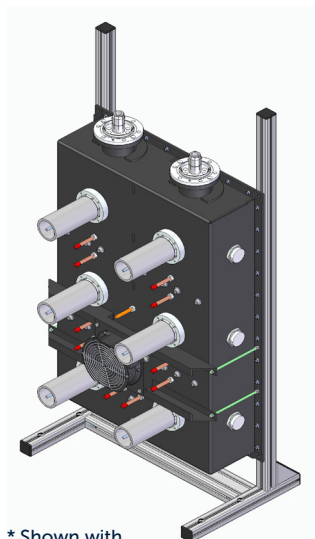


HIGH-POWER 20 kW EXT COAXIAL TUNABLE BANDPASS FILTERS

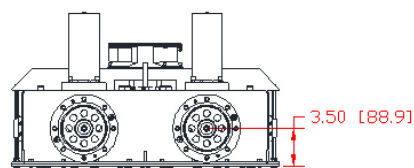
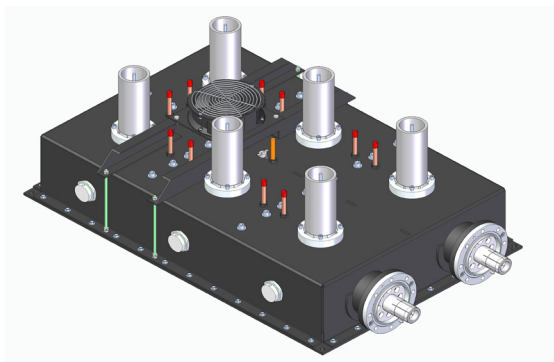
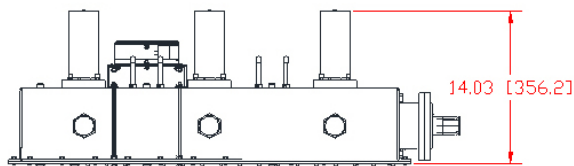
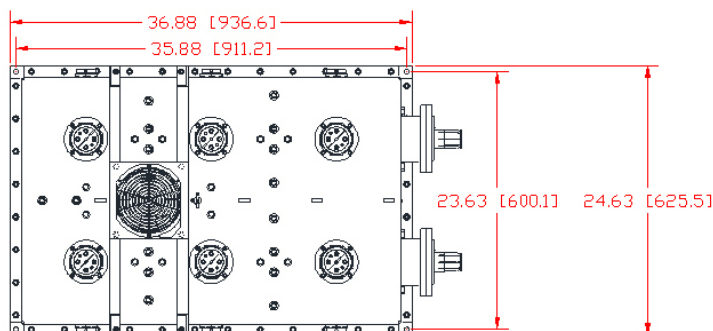
EXTENDED FREQUENCY BAND MODELS

KEY FEATURES

- Tunable 470 – 704 MHz
- Power levels up to 20 kW
- ATSC 3.0 compliant
- Temperature-stable
- 6-pole single and dual cross-coupled versions
- 3 1/8" EIA, 3 1/8" unflanged and 4 1/16" thick and thin wall versions available
- Optional 180° F (82° C) thermal interlock (standard on forced-air-cooled units)
- Optional floor mount frame for vertical mounting



* Shown with optional frame



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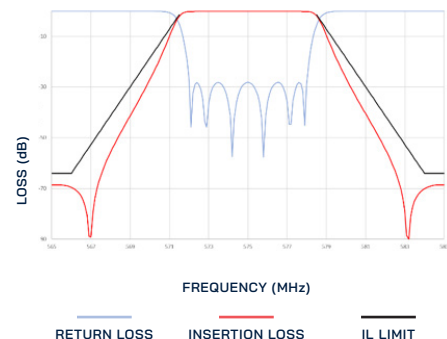
Raymond & Lewiston, Maine
(800) 341-9678



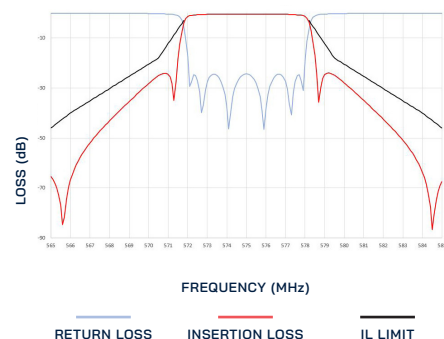
HIGH-POWER 20 kW EXT COAXIAL TUNABLE BANDPASS FILTERS

EXTENDED FREQUENCY BAND MODELS

6-POLE ATSC FULL MASK



6-POLE ATSC DUAL-CROSS



8-POLE ATSC SHARP-TUNED MASK



Cross Coupling		Single		Dual	
Model		UT6E11F-10K	UT6E11F-20K	UT6D11F-10K	UT6D11F-20K
Port Size		3 1/8" EIA or Unflanged; 4 1/16" Thin or Thick wall			
Power Rating		10 kW	20 kW	10 kW	20 kW
Tunable Frequency Range		470-704 MHz			
Channel Range		14-52 US, E21 - E49 European			
Rejection		>1.5 dB, Fc +/- 3.5 MHz >64 dB, Fc +/- 9 MHz		>15 dB, Fc +/- 3.25 MHz >18 dB, Fc +/- 4.5 MHz >40 dB, Fc +/- 9 MHz	
Typical Insertion Loss @ Fc		0.24 dB @ 473; 0.28 dB @ 605 MHz		0.25 dB @ 473; 0.29 dB @ 605 MHz	
Insertion Loss ATSC 1.0	@ Fc +/- 2.69 MHz	0.32 dB @ 473; 0.37 dB @ 605 MHz		0.45 dB @ 473; 0.60 dB @ 605 MHz	
	Integrated	0.26 dB @ 473; 0.30 dB @ 605 MHz		0.28 dB @ 473; 0.32 dB @ 605 MHz	
Insertion Loss ATSC 3.0	@ Fc +/- 2.92 MHz	0.35 dB @ 473; 0.45 dB @ 605 MHz		0.80 dB @ 473; 0.90 dB @ 605 MHz	
	Integrated	0.28 dB @ 473; 0.33 dB @ 605 MHz		0.32 dB @ 473; 0.37 dB @ 605 MHz	
Return Loss		>28 dB		>26 dB	
Group Delay; ATSC 1.0		<150 nS		<350 nS	
Group Delay; ATSC 3.0		<200 nS		<650 nS	
Size		41.5" x 24.6" x 15"		41.5" x 24.6" x 15"	
Weight		105 lbs		105 lbs	
Cooling		Convection	Forced Air	Convection	Forced Air
Ambient Temperature Range		0° C to 40° C			

- Insertion loss shown is typical; maximum is 0.05 dB higher than typical.
- Specifications based on ATSC full mask for the single cross-coupled, ATSC stringent mask for the dual cross-coupled.
- May be tuned to other channel bandwidth and mask requirements; specifications provided upon request.
- Specifications for altitudes up to 2000 feet. For higher altitudes, please consult the factory for ratings.
- Forced-air-cooled units require 15 watt AC source, 90-265 VAC.

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