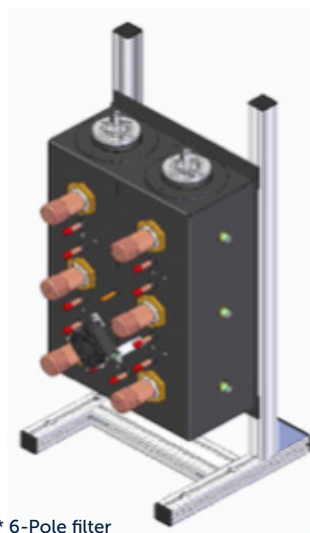


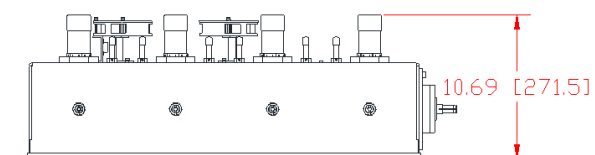
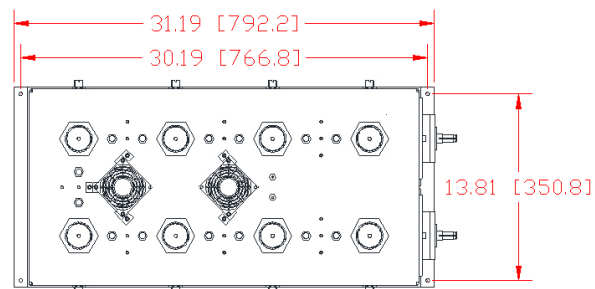
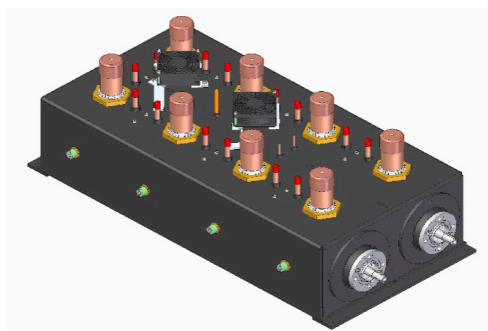
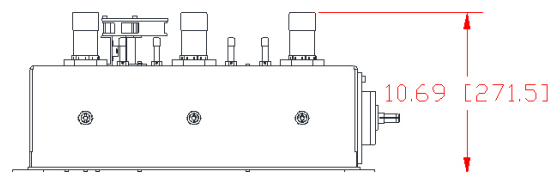
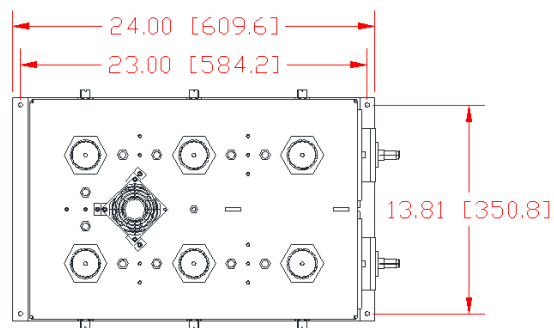
POWERLITE™ 3-5 kW TUNABLE BANDPASS FILTERS

KEY FEATURES

- Tunable 470–806 MHz
- Power levels up to 5 kW
- ATSC 3.0-compliant
- Temperature-stable
- 6-pole single or dual cross-coupled and 8-pole dual cross-coupled versions
- 1 5/8" EIA, 1 5/8" unflanged and 3 1/8" EIA versions available
- Optional 180°F (82°C) thermal interlock (standard on forced-air-cooled units)
- Optional floor mount frame for vertical mounting



* 6-Pole filter
shown with
optional frame



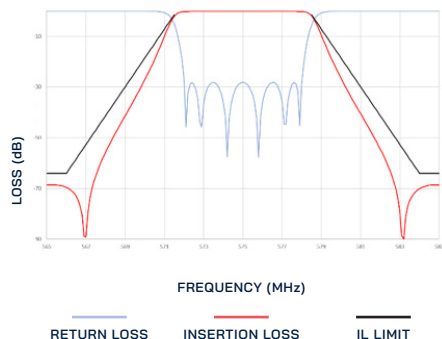
Dielectric.com

Raymond & Lewiston, Maine
(800) 341-9678

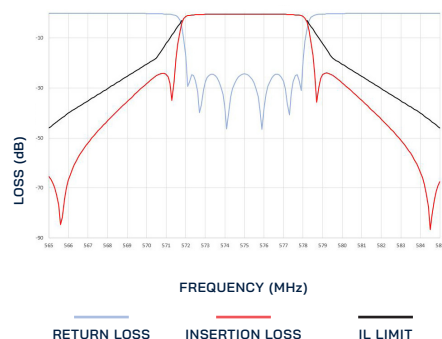


POWERLITE™ 3-5 kW TUNABLE BANDPASS FILTERS

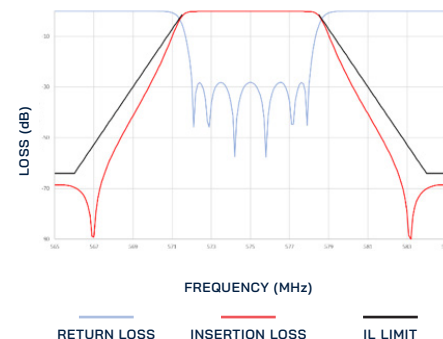
6-POLE ATSC FULL MASK



6-POLE ATSC DUAL-CROSS



8-POLE ATSC SHARP-TUNED MASK



Number of Poles		6			8	
Model - Single Cross-Coupling		UT6E7F-3K	UT6E7F-4K	UT6E7F-5K	—	—
Model - Dual Cross-Coupling		UT6D7F-3K	—	—	UT8D7F-3K	UT8D7F-4K
Port Size		1 5/8" or 3 1/8"	1 5/8" EIA	3 1/8" EIA	1 5/8" or 3 1/8"	1 5/8" or 3 1/8"
Power Rating		3 kW	4 kW	5 kW	3 kW	4 kW
Tunable Frequency Range		470–806 MHz				
Channel Range		14–69 US, E21–E62 European				
Rejection		>1.5 dB, Fc +/- 3.5 MHz >64 dB, Fc +/- 9 MHz			>15 dB, Fc +/- 3.25 MHz >64 dB, Fc +/- 9 MHz	
Typical Insertion Loss @ Fc		0.35 dB @ 473; 0.45 dB @ 605 MHz			0.40 dB @ 473; 0.50 dB @ 605 MHz	
Insertion Loss ATSC 1.0	@ Fc +/- 2.69 MHz	0.50 dB @ 473; 0.60 dB @ 605 MHz			0.80 dB @ 473; 1.00 dB @ 605 MHz	
	Integrated	0.38 dB @ 473; 0.48 dB @ 605 MHz			0.50 dB @ 473; 0.60 dB @ 605 MHz	
Insertion Loss ATSC 3.0	@ Fc +/- 2.92 MHz	0.55 dB @ 473; 0.65 dB @ 605 MHz			1.30 dB @ 473; 1.50 dB @ 605 MHz	
	Integrated	0.40 dB @ 473; 0.50 dB @ 605 MHz			0.54 dB @ 473; 0.64 dB @ 605 MHz	
Return Loss		>26 dB			>26 dB	
Group Delay; ATSC 1.0		<150 nS			<500 nS	
Group Delay; ATSC 3.0		<200 nS			<730 nS	
Size		14.81" x 24" x 12"			14.81" x 31.19" x 12"	
Weight		45 lbs			60 lbs	
Cooling		Convection	Forced Air	Forced Air	Convection	Forced Air
Ambient Temperature Range		0–40° C				

- Insertion loss shown is typical; maximum is 0.05 dB higher than typical.
- Specifications based on ATSC full mask for the 6-pole, ATSC sharp-tuned mask for the 8-pole.
- 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 4.5 watt AC source for the 6-pole, 9 watt for the 8-pole, 11-240 VAC.