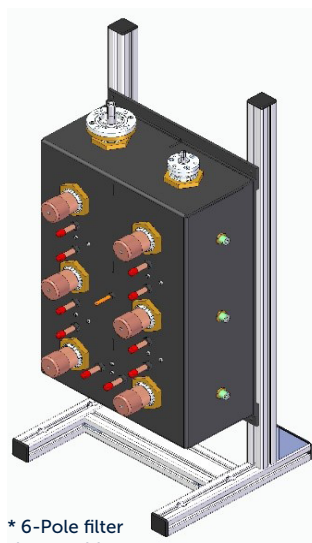


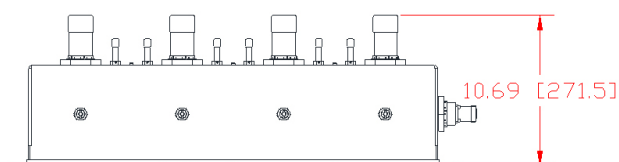
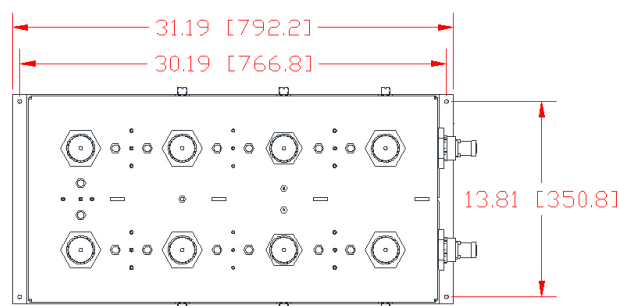
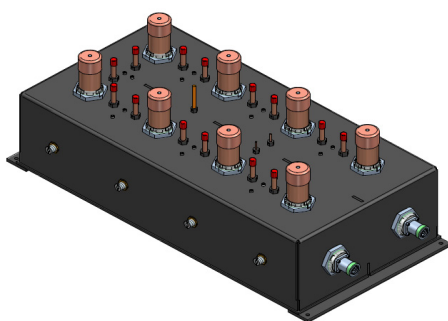
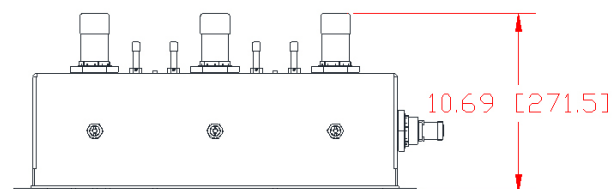
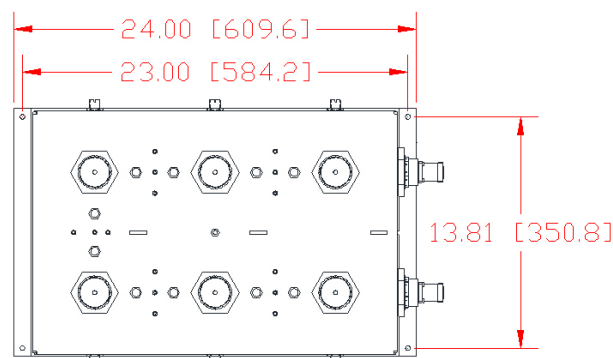
## POWERLITE™ 1.5 kW TUNABLE BANDPASS FILTERS

### KEY FEATURES

- Tunable 470–806 MHz
- ATSC 3.0-compliant
- Temperature-stable
- 6-pole single or dual cross coupled and 8-pole dual cross coupled versions
- Configurable input and output connectors, for any combination of:
  - DIN 7/16
  - 7/8" EIA
  - 1 5/8" EIA
- Optional voltage probe monitoring of input and output available
- Optional 180° F (82° C) thermal interlock
- Optional floor mount frame for vertical mounting



\* 6-Pole filter shown with optional frame



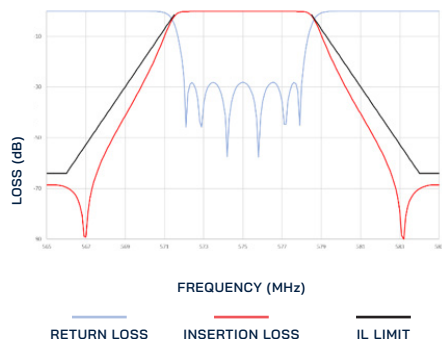
**Dielectric.com**

Raymond & Lewiston, Maine  
(800) 341-9678

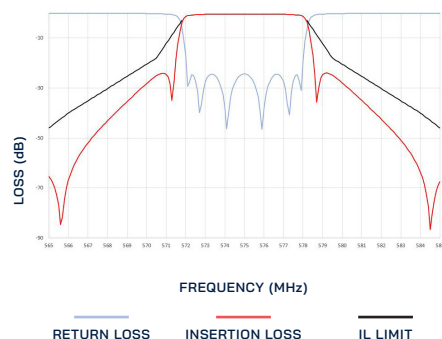


## POWERLITE™ 1.5 kW TUNABLE BANDPASS FILTERS

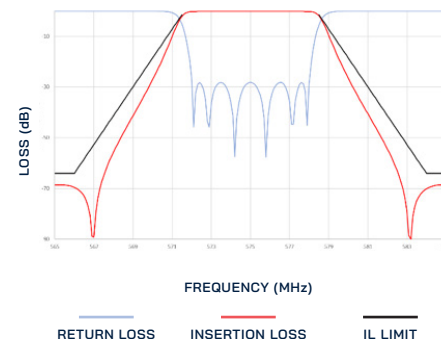
### 6-POLE ATSC FULL MASK



### 6-POLE ATSC DUAL-CROSS



### 8-POLE ATSC SHARP-TUNED MASK



| Number of Poles             |                   | 6                                                        | 8                                               |
|-----------------------------|-------------------|----------------------------------------------------------|-------------------------------------------------|
| Model—Single Cross-Coupling |                   | UT6E7F-1.5K                                              | —                                               |
| Model—Dual Cross-Coupling   |                   | UT6D7F-1.5K                                              | UT8D7F-1.5K                                     |
| Port Size                   |                   | Specify any combination - DIN 7/16, 7/8" EIA, 1 5/8" EIA |                                                 |
| Tunable Frequency Range     |                   | 470–806 MHz.                                             |                                                 |
| Channel Range               |                   | 14–36 US, E21–E62 European                               |                                                 |
| Rejection                   |                   | >15 dB, Fc +/- 3.5 MHz<br>>64 dB, Fc +/- 9 MHz           | >15 dB, Fc +/- 3.25 MHz<br>>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<br>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<br>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 11"                                       | 14.81" x 31.19" x 11"                           |
| Weight                      |                   | 45 lbs                                                   | 60 lbs                                          |
| 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.