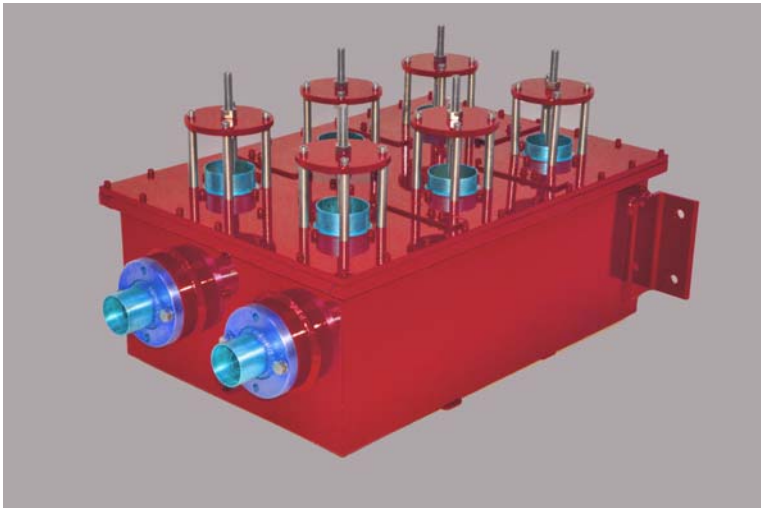


# 4-SECTION & 6-SECTION UHF 1.2kW MASK FILTERS



## FEATURES

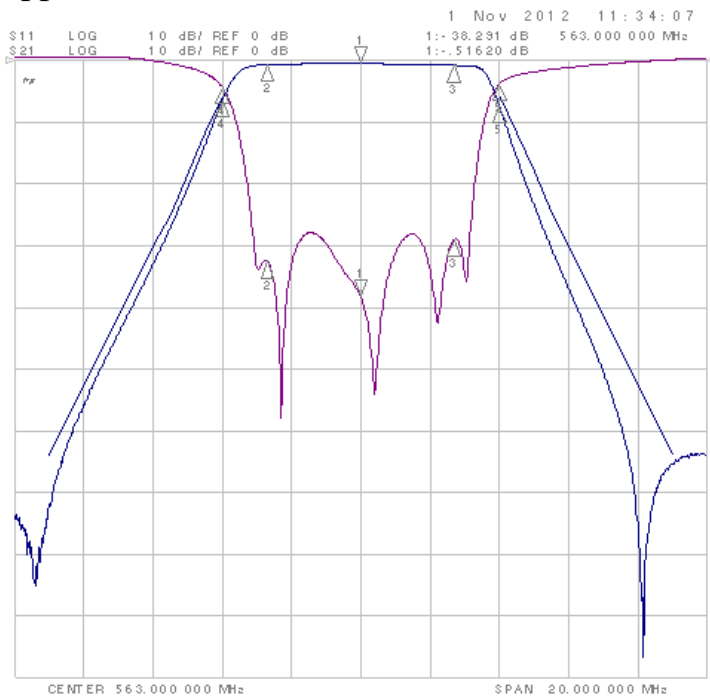
- Full Band Tunability (470 - 806 MHz)
- Temperature Compensated Resonators
- 4-Section version available
- For ATSC Simple, Stringent or Full-Service Masks.
- For ISDB-T Non-Critical Mask
- Ideal for use in Channel Combiners

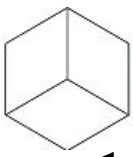
The P-Cube Mask Filter is full-band tunable with a 6-section, cross-coupled response making it suitable for Stringent or Full-Service ATSC Masks and the Non-Critical ISDB-T Mask. A 4-section version is also available for the Simple ATSC Mask.

P-Cube's dedicated technical staff will help you choose the right filter options for your application.

## SPECIFICATIONS

<b>INPUT PWR RATING</b>	1.2 kW avg.
<b>ATTENUATION</b> ATSC Simple Mask ATSC Stringent Mask ATSC Full-Serv. Mask	See Chart on pg. 2
<b>CONNECTORS</b>	1-5/8" or 7/8" EIA flanged
<b>DIMENSIONS</b> 4-Sections  6-sections	14" x 17" x 13" (approx.) Height includes probes (36 cm x 43 cm x 33 cm)  14" x 24" x 13" (approx.) Height includes probes (36 cm x 61 cm x 33 cm)
<b>WEIGHT</b> 4-sections 6-sections	30 lbs (14 Kg) approx. 45 lbs (21 Kg) approx.





# 1.2 KW, 6-SECTION MASK FILTER SPECIFICATIONS

## 4-SECTION SPECIFICATIONS (ATSC SIMPLE MASK ONLY)

FILTER TYPE	4 SECTIONS		
<b>INPUT VSWR</b>	< 1.1: 1 over Fc $\pm$ 2.69 MHz	<b>ATTENUATION</b>	> 1 dB at Fc $\pm$ 5.0 MHz > 26 dB at Fc $\pm$ 9 MHz
<b>INSERTION LOSS</b> (AT CH 69) <b>Loss is lower at lower channels</b>	< 0.5 dB at Fc < 0.6 dB at Fc $\pm$ 2.69 MHz	<b>GROUP DELAY VARIATION</b>	< 50 nsec over Fc $\pm$ 2.69 MHz

## 6-SECTION SPECIFICATIONS

MASK REQUIREMENTS	ATSC STRINGENT MASK	ATSC FULL SERVICE MASK	ISDB-T NON-CRITICAL MASK
<b>Filter Type</b>	6-section, cross-coupled	6-section, cross-coupled	6-section, cross-coupled
<b>INPUT VSWR</b>	< 1.08 : 1 over Fc $\pm$ 2.69 MHz	< 1.08 : 1 over Fc $\pm$ 2.69 MHz	1.1 : 1 or better over Fc $\pm$ 2.79 MHz
<b>INSERTION LOSS</b> (AT CH 69) <b>Loss is lower at lower channels</b>	< 0.85 dB at Fc < 1.10 dB at Fc $\pm$ 2.69 MHz	< 0.85 dB at Fc < 1.10 dB over Fc $\pm$ 2.69 MHz	< 0.7 dB at Fc < 1.35 dB at Fc $\pm$ 2.79 MHz
<b>ATTENUATION</b>	> 5.90 dB at Fc $\pm$ 4.0 MHz > 11.7 dB at Fc $\pm$ 4.5 MHz > 18.0 dB at Fc $\pm$ 5.0 MHz > 25.0 dB at Fc $\pm$ 5.5 MHz > 30.0 dB at Fc $\pm$ 6.0 MHz > 30.0 dB at Fc $\pm$ 9.0 MHz	> 5.90 dB at Fc $\pm$ 4.0 MHz > 11.7 dB at Fc $\pm$ 4.5 MHz > 18.0 dB at Fc $\pm$ 5.0 MHz > 25.0 dB at Fc $\pm$ 5.5 MHz > 30.0 dB at Fc $\pm$ 6.0 MHz > 64.0 dB at Fc $\pm$ 9.0 MHz	> 2.0 dB at Fc $\pm$ 3.15 MHz > 20.0 dB at Fc $\pm$ 4.5 MHz > 40.0 dB at Fc $\pm$ 9.0 MHz
<b>GROUP DELAY VARIATION</b>	< 200 nsec over Fc $\pm$ 2.69 MHz	< 200 nsec over Fc $\pm$ 2.69 MHz	< 350 nsec over Fc $\pm$ 2.79 MHz