

DTV UHF MASK FILTER SPECIFICATION STANDARD

Page 1

Item	QTY	Spec. #	Description	Total																																																
		2002-130-A	<u>UHF DTV 6-SECTION 1-5/8” EIA ELLIPTIC FUNCTION REFLECTIVE FILTER FOR UP TO 3.0 KW AVERAGE MAX. APPLICATIONS</u> CONSISTS OF: (1) 1-5/8” 6-SECTION, ELLIPTIC FUNCTION, COAXIAL CAVITY BANDPASS FILTER (1) FACTORY ASSEMBLY AND TEST <u>SPECIFICATIONS</u> <table><tr><td>Frequency range:</td><td colspan="2">470 to 806, Channelized as required</td></tr><tr><td>Connectors:</td><td colspan="2">1-5/8” EIA</td></tr><tr><td>Power:</td><td colspan="2">3.0 kW Average Max</td></tr><tr><td>Passband:</td><td colspan="2">5.38 MHz Minimum</td></tr><tr><td>Loss:</td><td colspan="2"><0.48 dB @ f_{center}</td></tr><tr><td></td><td colspan="2"><0.73dB, @ f_{center}+/- 3.0 MHz</td></tr><tr><td>Group Delay:</td><td colspan="2"><150 nS @ f_{center}+/- 2.7 MHz</td></tr><tr><td>VSWR:</td><td colspan="2"><1.10 @ f_{center}+/- 2.7 MHz</td></tr><tr><td>Rejection:</td><td>+/- 3.5 MHz</td><td>>0.05 dB</td></tr><tr><td></td><td>+/- 4.0 MHz</td><td>>8.0 dB</td></tr><tr><td></td><td>+/- 5.0 MHz</td><td>>19.2 dB</td></tr><tr><td></td><td>+/- 6.0 MHz</td><td>>30.4 dB</td></tr><tr><td></td><td>+/- 7.0 MHz</td><td>>41.6 dB</td></tr><tr><td></td><td>+/- 8.0 MHz</td><td>>52.8 dB</td></tr><tr><td></td><td>+/- 9.0 MHz</td><td>>64.0 dB</td></tr><tr><td>Temperature Range:</td><td colspan="2">0 to 45 deg. C</td></tr></table>	Frequency range:	470 to 806, Channelized as required		Connectors:	1-5/8” EIA		Power:	3.0 kW Average Max		Passband:	5.38 MHz Minimum		Loss:	<0.48 dB @ f _{center}			<0.73dB, @ f _{center} +/- 3.0 MHz		Group Delay:	<150 nS @ f _{center} +/- 2.7 MHz		VSWR:	<1.10 @ f _{center} +/- 2.7 MHz		Rejection:	+/- 3.5 MHz	>0.05 dB		+/- 4.0 MHz	>8.0 dB		+/- 5.0 MHz	>19.2 dB		+/- 6.0 MHz	>30.4 dB		+/- 7.0 MHz	>41.6 dB		+/- 8.0 MHz	>52.8 dB		+/- 9.0 MHz	>64.0 dB	Temperature Range:	0 to 45 deg. C		
Frequency range:	470 to 806, Channelized as required																																																			
Connectors:	1-5/8” EIA																																																			
Power:	3.0 kW Average Max																																																			
Passband:	5.38 MHz Minimum																																																			
Loss:	<0.48 dB @ f _{center}																																																			
	<0.73dB, @ f _{center} +/- 3.0 MHz																																																			
Group Delay:	<150 nS @ f _{center} +/- 2.7 MHz																																																			
VSWR:	<1.10 @ f _{center} +/- 2.7 MHz																																																			
Rejection:	+/- 3.5 MHz	>0.05 dB																																																		
	+/- 4.0 MHz	>8.0 dB																																																		
	+/- 5.0 MHz	>19.2 dB																																																		
	+/- 6.0 MHz	>30.4 dB																																																		
	+/- 7.0 MHz	>41.6 dB																																																		
	+/- 8.0 MHz	>52.8 dB																																																		
	+/- 9.0 MHz	>64.0 dB																																																		
Temperature Range:	0 to 45 deg. C																																																			