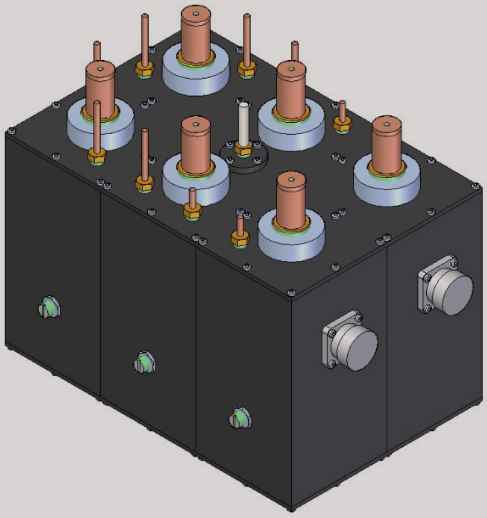
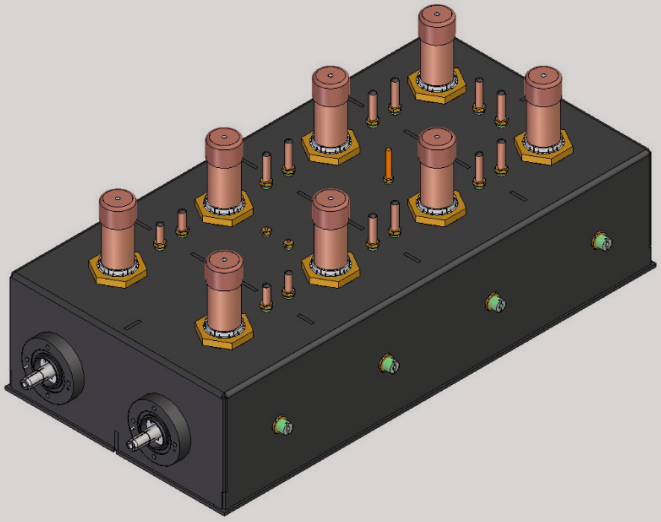
Dielectric®

UHF Tunable Filter



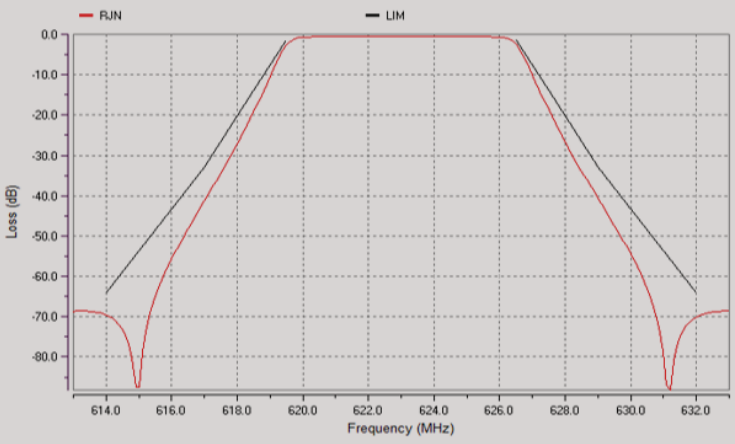
AVAILABLE TODAY

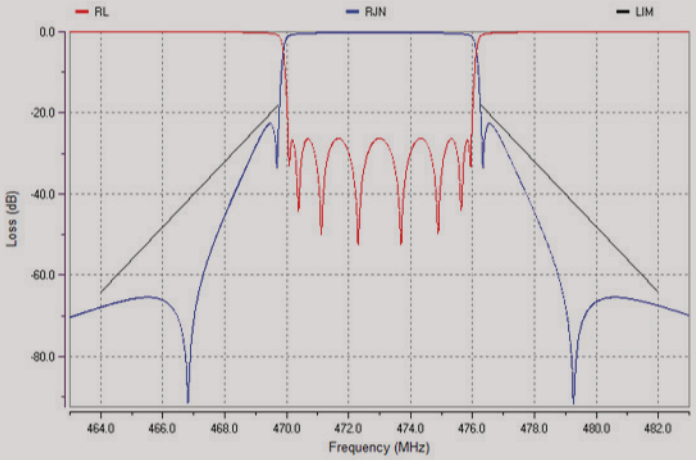
Manufactured in Maine, USA



Key Features:

- Tunable 470-608MHz
- Reduced operational cost
- Small footprint
- Efficient waveguide-tunable UHF filter
- Enhanced peak power capability
- Lightweight
- Forced-air & Convection-cooled
- ATSC 3.0 compatible
- Cross coupled for increased rejection
- Temperature-stable





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10/20/2017

UHF TUNABLE FILTER

PARAMETER	SPEC							
Model Number	UT6E4F - 600		UT6D4F - 600	UT8D4F - 400				
# of Poles	6			8				
Port Size	7-16 DIN							
Tunable Frequency Range	14 - 69 (E21-E69)							
Standard	ATSC full	ISDB-T non crit	DVB-T non crit	ATSC sharp tuned	ISDB-T crit	DVB-T crit	DTMB crit	
Channel Bandwidth	6			8	6		8	6
Passband (fc+/-MHz)	2.915	2.79	2.86	3.9	2.915	2.79	3.9	2.86
Insertion Loss (fo)	.9 dB max			.6 dB max	1.1 dB max		1.0 dB max	1.1 dB max
Insertion Loss (fc+/-MHz)	1.2 dB max .9 dB int *(2.92)*	1.2 dB max .9 dB *(2.79)*	1.8 dB max 1.0 dB int *(2.86)*	1.5 dB max .7 dB int *(3.9)*	1.8 dB max 1.2 dB int *(2.92)*	2.1 dB max 1.25 dB int *(2.79)*	2.3 dB max 1.2 dB int *(3.9)*	2.5 dB max 1.3 dB int *(2.85)*
Filter Rejection (fc+/-MHz)	>1.5 dB *(3.5)* >14 dB *(4.5)* >33 dB *(6)* >64 dB *(9)*	>19 dB *(4.5)* >53 dB *(9)*	>3 dB *(3.2)* >18 dB *(4.5)* >40 dB *(9)* >58 dB *(12)*	>4 dB *(4.2)* >18 dB *(6)* >44 dB *(12)* >44 dB *(20)*	>15 dB *(3.25)* >64 dB *(9)*	>8 dB *(3.15)* >25 dB *(4.5)* >62 dB *(9)* >62 dB *(15)*	>15 dB *(4.2)* >27 dB *(6)* >52 dB *(12)* >52 dB *(20)*	>16 dB *(3.15)* >28 dB *(4.5)* >53 dB *(9)* >53 dB *(15)*
Group Delay Variation (fc+/-MHz)	<150 ns (2.69) <200 ns (2.92)	<200 ns (2.79)	<400 ns (2.86)	<350 ns (3.9)	<500 ns (2.69) <730 ns (2.92)	<500 ns (2.79)	<780 ns (3.9)	<680 ns (2.85)
Weight	13 lbs (6 kg)				15 lbs (7 kg)			
L x W x H	14.5 in x 10 in x 8 in 37 cm x 25 cm x 20 cm				19 in x 10 in x 8 in 48 cm x 25 cm x 20 cm			
Ambient Temp Range	0° C to 40° C							
Cooling Free Convection	600 W			400 W				
Temperature Stability	50 kHz shift							

All specifications are subject to change.

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