



The RFS LPF low pass filter provides a minimum of 35 dB rejection up to 4.5 GHz. A custom designed structure is used to create a very sharp cut-off rate and to maintain high rejection. Unlike traditional coaxial low pass filters, the RFS LPF does not exhibit the typical rejection band periodicity. High quality insulating material is used throughout the internal design of the low pass filter leading to high power handling capability and very low insertion loss while keeping dimensions small. With the lowpass filter installed, a broadcast TV transmitter can be safely operated in co-location with other wireless services such as GSM1800 and WiFi.



FEATURES / BENEFITS

- ➔ High power handling capability
- ➔ Low insertion loss
- ➔ Sharp cut off rate
- ➔ 35dB rejection up to 4.5GHz
- ➔ Compact size

Low Pass Filter Series showing LPF16E4

Technical Features

ELECTRICAL SPECIFICATIONS

Frequency Range (tuneable)	MHz	-	
Impedance		50.0 unbalanced	
Model		LPF8E4	LPF16E4
Pass Band	MHz	470 - 862	
Pass band Return Loss		>25 dB (VSWR<1.12)	>27 dB (VSWR<1.1)
Pass band Insertion Loss	dB	< 0.08 dB	< 0.08 dB (typ 0.06dB)
Stop band rejection		>12 dB @ f > 1100MHz >40 dB (1400 MHz-3500MHz) >35 dB (3500MHz-4500MHz)	>12 dB @ f > 1100MHz >40 dB (1400 MHz-1550MHz) >55 dB (1550MHz-4500MHz)
Power handling	kW	2 kW DVB av power	5 kW DVB av power

GENERAL SPECIFICATIONS

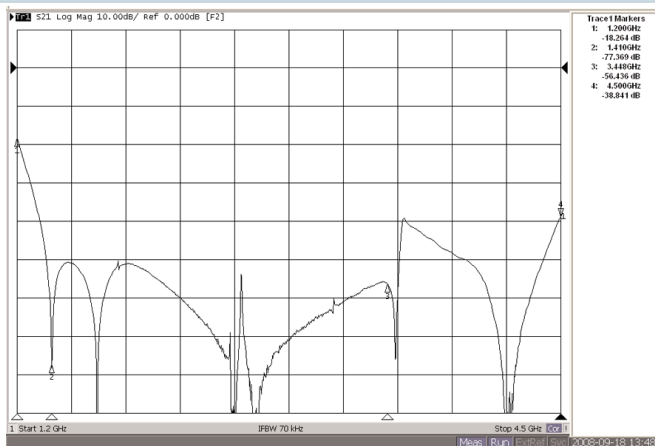
Technical Application		Harmonic suppression	
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MECHANICAL SPECIFICATIONS

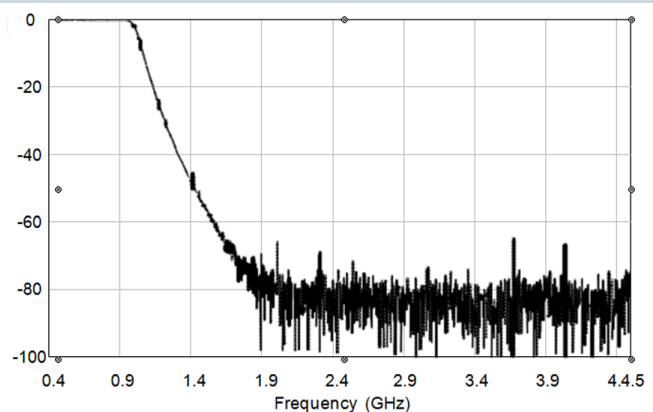
Connectors		7-16 DIN	1 5/8" or 3 1/8" flanged or unflanged
Dimensions		203mm x 33mm x 108mm	295mm x 100mm x 100mm

TEMPERATURE SPECIFICATIONS

Temperature range	°C (°F)	-10 to 50 (to)	
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LPF8E4



LPF16E4



External Document Links	Notes