



The RFS LPF low pass filter provides a minimum of 40dB rejection up to 3.3 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
- 40dB rejection up to 3.3GHz
- Compact size



Low Pass Filter Series showing LPF16E4

Technical features

GENERAL SPECIFICATIONS

Product Type		Band IV/V (UHF) TV Low Pass Filter
Technical Application		Harmonic suppression

ELECTRICAL SPECIFICATIONS

Impedance		
Model		LPF2FC710
Pass Band	MHz	470 - 710
Pass band Return Loss		>26.4 dB (VSWR<1.10)
Pass Band Insertion Loss	dB	< 0.1dB
Stop band rejection		>40 dB (940MHz-1200MHz) >60 dB (1200MHz-3300MHz)
Power Handling	kW	5 kW av (all modulation types)

MECHANICAL SPECIFICATIONS

Connectors		1 5/8" flanged or unflanged
Dimensions		Refer to Figure 1. Weight approx. 2.6 kg

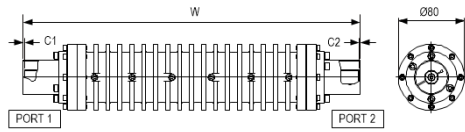
TEMPERATURE SPECIFICATIONS

Temperature Range	°C (°F)	-10 to 50 (14 to 122)
--------------------------	---------	------------------------



LPF2FC710

UHF Low Pass Filter



25.00171.007	WX39 EXTENDED UNFLANGED	WX39 EXTENDED UNFLANGED	408.2	1.5	1.5
25.00171.006	WX39 UNFLANGED	WX39 UNFLANGED	386.9	1.5	1.5
25.00171.005	7/8" UNFLANGED	7/8" UNFLANGED	391.0	0.0	0.0
25.00171.004	1-5/8" UNFLANGED MYAT CUT-BACK	1-5/8" UNFLANGED MYAT CUT-BACK	408.2	11.1	11.1
25.00171.003	WX39 UNFLANGED	WX20 UNFLANGED	388.9	1.5	1.0
25.00171.002	NAX39 UNFLANGED	NAX39 UNFLANGED	386.9	1.5	1.5
25.00171.001	7/8" EIA FLANGED FEMALE	7/8" EIA FLANGED FEMALE	403.9	12.2	12.2
25.00171	1 5/8" UNFLANGED	1 5/8" UNFLANGED	386.9	0.5	0.5
PART No.	PORT 1	PORT 2	DIM "W"	DIM "C1"	DIM "C2"

Figure 1 Dimensions

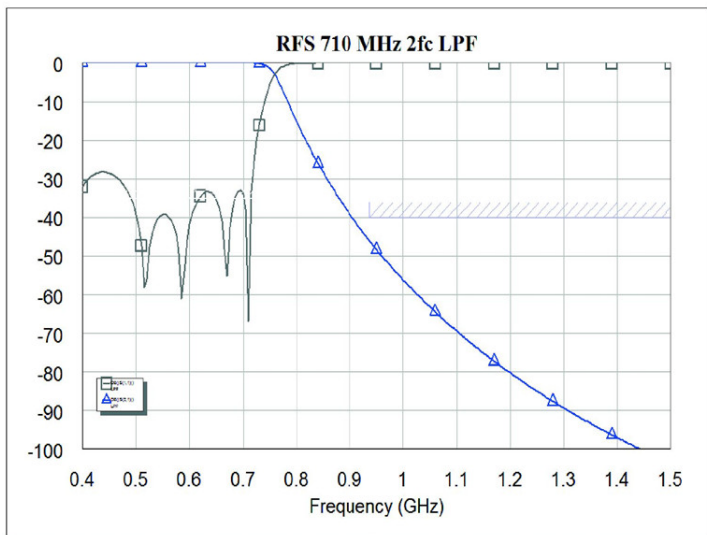


Figure 2 S11/S22 Result

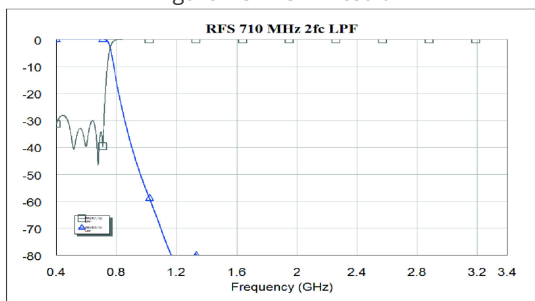


Fig 3 S11/S22 Result

[External Document Links](#)

[Notes](#)