

Standard High Pass Filters



RLC Electronics' High Pass Filters are designed for operation over the frequency range of 100 MHz to 10.0 GHz. Sharp rejection below the cutoff frequency is assured in the use of these filters. Low insertion loss and low VSWR in the pass band are accomplished

by the utilization of impedance matching, transforming end sections, and precise coaxial fabrication. Rugged light weight construction makes the units suitable for extreme environmental conditions.

Specifications

F.1.2.3

Model No.	Pass Band (GHz)	3 dB Point (Typical) (GHz)	30 dB Point (Typical) (GHz)	60 dB (Min.) Stop Band (GHz)
F-20-100-	.1- .20	.09	.07	DC- .05
F-20-200-	.2- .40	.18	.14	DC- .10
F-20-300-	.3- .60	.27	.21	DC- .15
F-20-400-	.4- .80	.36	.28	DC- .20
F-20-500-	.5- 1.00	.45	.35	DC- .25
F-20-600-	.6- 1.20	.54	.42	DC- .30
F-20-800-	.8- 1.60	.72	.60	DC- .40
F-20-1000-	1.0- 2.00	.90	.70	DC- .50
F-40-1.0-	1.0- 2.00	.90	.70	DC- .50
F-40-1.5-	1.5- 3.00	1.35	1.05	DC- .75
F-40-2.0-	2.0- 4.00	1.80	1.40	DC-1.00
F-40-3.0-	3.0- 6.00	2.70	2.10	DC-1.50
F-40-4.0-	4.0- 8.00	3.60	2.80	DC-2.00
F-40-5.0-	5.0-10.00	4.50	3.50	DC-2.50
F-40-6.0-	6.0-12.00	5.40	4.20	DC-3.00
F-40-8.0-	8.0-16.00	7.20	5.60	DC-4.00
F-40-10.0-	10.0-18.00	9.20	7.00	DC-5.00

Pass Band VSWR: 1.6

Pass Band Insertion Loss: F-20; 0.7 dB max.; F-40; 0.5 dB max.

Power Rating: (Average) F-20—25 watts; F-40—100 watts.

Impedance: 50 ohms.

Environment: MIL-E-5400, Class 1A.

Connectors: (Male & Female)

Type - Recommended Frequency Range, MHz

N	DC-12,400
BNC	DC- 1,000
TNC	DC-15,000
SMA	DC-26,000

To designate the filter desired use:

- (1) 20 or 40 for model number.
- (2) 100, 200, etc. for pass band.

- (3) N for type N, B for BNC, T for TNC or R for SMA. Add "M" or "F" for two male or female.

Example: F-40-10.0-R is a model 40, 10 to 18 GHz filter with type SMA connectors.

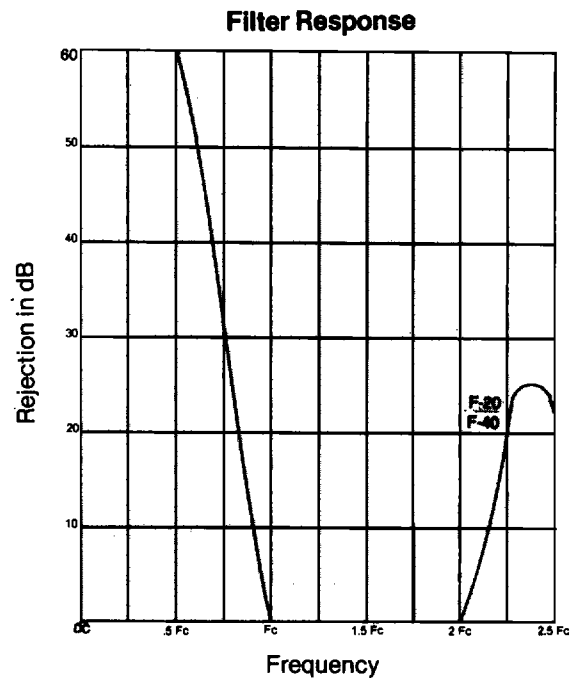
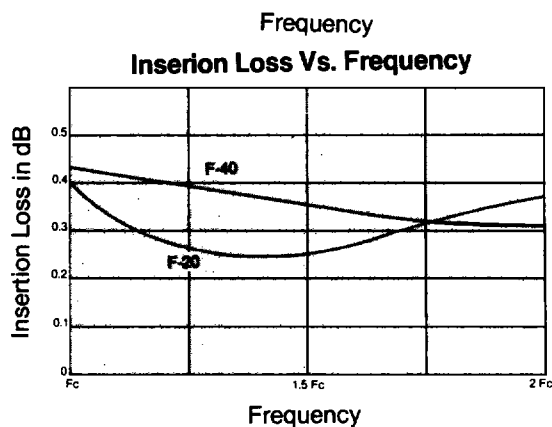
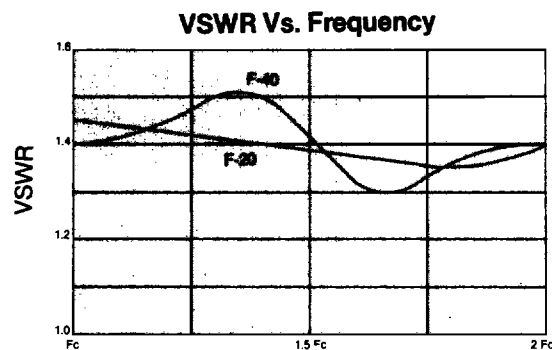
Specials requiring closer tolerances, different frequency ranges, special connectors, different materials, finishes, etc., can be furnished upon request. Specifications subject to change without notice.



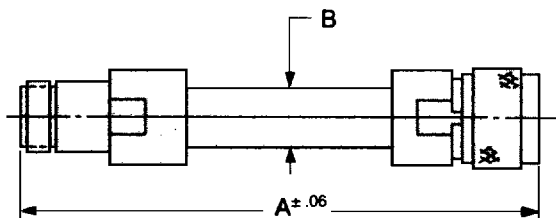
RLC ELECTRONICS, INC.

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(914) 241-1334 • FAX: 914-241-1753

Typical Operating Curves



Outlines



MODEL	A			B	WEIGHT (ounces)
	N	BNC/TNC	SMA		
F-20-100	4.04	3.83	3.44	.625	5.0
F-20-200	4.04	3.83	3.44	.625	5.0
F-20-300	4.04	3.83	3.44	.625	5.0
F-20-400	4.04	3.83	3.44	.625	5.0
F-20-500	4.04	3.83	3.44	.625	5.0
F-20-600	4.04	3.83	3.44	.625	5.0
F-20-800	4.04	3.83	3.44	.625	5.0
F-20-1000	4.04	3.83	3.44	.625	5.0
F-40-1.0	4.20	3.90	3.56	.50	5.0
F-40-1.5	4.20	3.90	3.56	.50	5.0
F-40-2.0	4.20	3.90	3.56	.50	5.0
F-40-3.0	6.28	6.00	5.66	.44	8.0
F-40-4.0	5.13	4.84	4.60	.44	7.0
F-40-5.0	4.44	4.13	3.74	.44	6.0
F-40-6.0	3.84	3.66	3.22	.44	5.5
F-40-8.0	3.32	3.00	2.72	.44	5.0
F-40-10.0	2.90	2.75	2.28	.44	5.0

Tolerances unless otherwise specified are: .xx, $\pm .02$; .xxx, $\pm .005$.

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