

High Pass Filter

SHP-ED12723/2

Coaxial

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



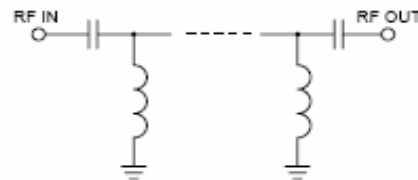
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CASE STYLE : FF99

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 1 dB)	120		800	MHz
fco Nom. (Loss 3 dB)		95		MHz
Stopband (Loss > 40 dB)	DC		75	MHz
(Loss > 20 dB)	75		82	MHz
Passband VSWR		1.55		(:1)
Stopband VSWR		18		(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W

Functional Schematic



Coaxial High Pass Filter

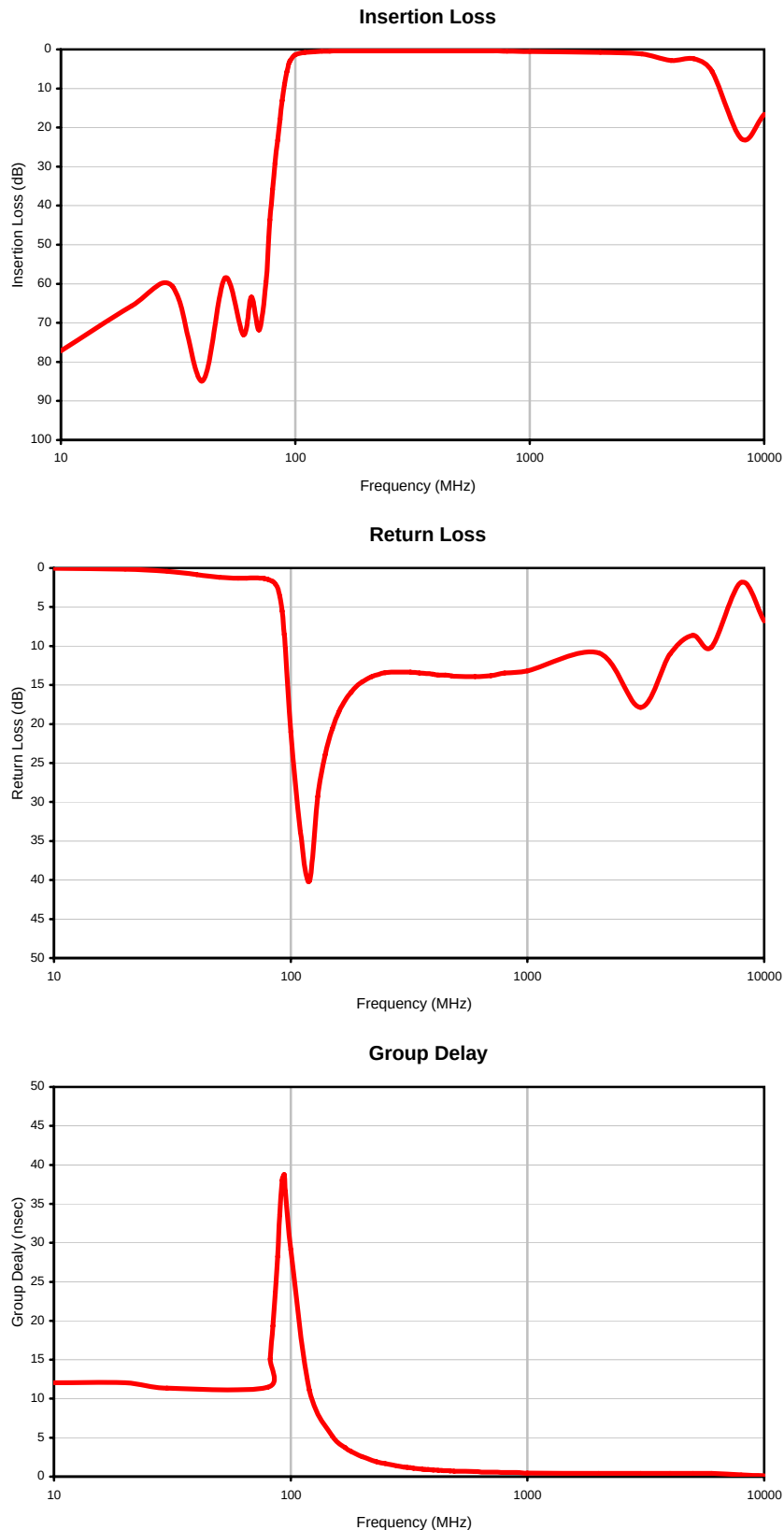
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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10	77.18	0.02	10	12.05
20	65.70	0.16	20	12.05
30	60.73	0.41	30	11.36
40	84.93	0.83	80	11.49
50	58.56	1.20	82	15.10
60	73.05	1.30	84	19.35
65	63.40	1.29	86	23.55
70	71.86	1.28	88	28.24
75	59.57	1.31	90	33.63
77	48.29	1.35	92	38.02
78	43.65	1.38	94	38.75
79	39.56	1.41	95	36.53
80	35.82	1.45	100	29.12
82	29.15	1.57	120	11.09
84	23.24	1.74	150	5.18
86	17.89	2.04	170	3.72
88	13.07	2.58	180	3.24
90	8.89	3.62	200	2.56
92	5.64	5.52	230	1.93
94	3.50	8.51	250	1.67
95	2.82	10.39	280	1.38
100	1.38	21.02	300	1.24
110	0.80	33.85	310	1.19
120	0.60	40.14	320	1.14
130	0.49	29.28	330	1.09
140	0.44	23.91	340	1.05
150	0.41	20.58	350	1.01
160	0.40	18.41	360	0.97
170	0.39	16.93	370	0.94
180	0.40	15.90	380	0.91
190	0.40	15.15	390	0.88
200	0.40	14.61	400	0.86
220	0.41	13.91	410	0.84
250	0.41	13.43	420	0.82
280	0.40	13.35	430	0.80
300	0.40	13.34	440	0.78
320	0.40	13.36	450	0.76
350	0.39	13.46	460	0.75
380	0.39	13.53	470	0.73
400	0.39	13.62	480	0.72
420	0.38	13.71	490	0.70
450	0.39	13.73	500	0.69
480	0.39	13.83	600	0.64
500	0.39	13.88	650	0.58
600	0.41	13.91	700	0.56
700	0.42	13.81	800	0.53
800	0.46	13.46	900	0.52
1000	0.51	13.19	1000	0.45
2000	0.80	10.88	2000	0.44
3000	1.12	17.86	3000	0.43
4000	2.81	11.05	4000	0.42
5000	2.36	8.62	5000	0.41
6000	5.69	10.14	6000	0.43
8000	22.89	1.84	8000	0.22
10000	16.58	6.77	10000	0.10



Typical Performance Curves





All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I