

Coaxial

High Pass Filter

50Ω 100 to 3000 MHz
Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input 0.1W max.

Permanent damage may occur if any of these limits are exceeded.

Features

- rugged shielded case

Applications

- lab use
- transmitters/receivers
- radio communications

SHP-100A+


Generic photo used for illustration purposes only

CASE STYLE: FF99

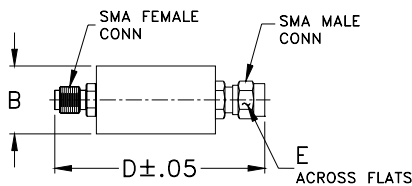
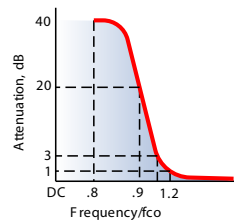
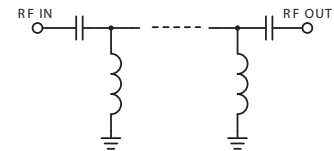
Connectors	Model
SMA	SHP-100A+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

High Pass Filter Electrical Specifications

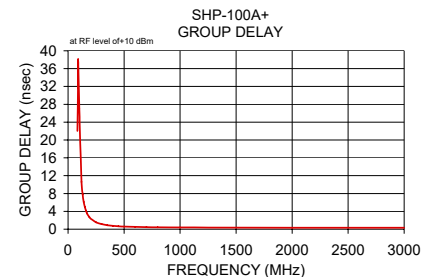
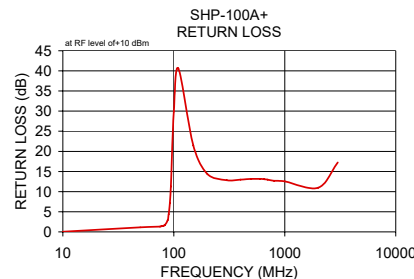
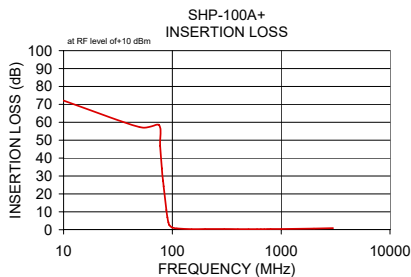
STOPBAND (MHz)		fco (MHz) Nom.	PASSBAND (MHz)		VSWR (:1)	
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss <1 dB)	(loss <1.7 dB)	Stopband Typ.	Passband Typ.
DC-77	77-82	92	110-2000	2000-3000	13	1.6

Outline Drawing

typical frequency response

electrical schematic

Outline Dimensions (inch)

B	D	E	wt
.67	1.98	.312	grams
17.02	50.29	7.92	42.0

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	72.11	0.05	84.00	22.02
50.00	57.35	1.13	88.00	31.80
75.00	58.56	1.33	90.00	37.99
77.00	46.88	1.38	100.00	27.06
80.00	34.21	1.48	120.00	10.61
82.00	27.39	1.60	130.00	7.80
83.00	24.28	1.68	140.00	6.12
88.00	10.95	2.87	150.00	4.99
90.00	6.93	4.36	160.00	4.17
92.00	4.13	7.12	170.00	3.55
94.00	2.55	11.26	180.00	3.08
100.00	1.18	29.89	190.00	2.72
110.00	0.71	40.57	200.00	2.42
150.00	0.35	21.43	250.00	1.54
200.00	0.37	14.40	300.00	1.13
300.00	0.38	12.83	350.00	0.90
400.00	0.36	12.97	400.00	0.76
500.00	0.34	13.15	450.00	0.65
600.00	0.34	13.15	500.00	0.59
650.00	0.35	13.08	600.00	0.54
700.00	0.36	13.00	700.00	0.46
800.00	0.39	12.70	800.00	0.43
1000.00	0.42	12.53	1000.00	0.38
2000.00	0.65	10.97	2000.00	0.34
3000.00	0.88	17.25	3000.00	0.34


Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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