Coaxial

High Pass Filter

SHP-100A+

50Ω 100 to 3000 MHz

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

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

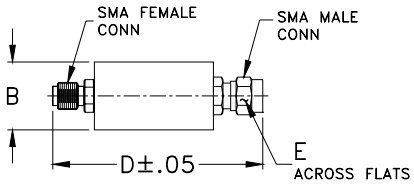
Applications

- lab use
- transmitters/receivers
- radio communications

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

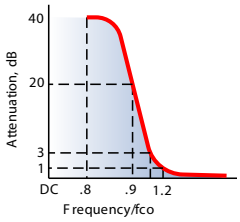
Outline Drawing



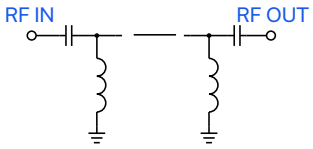
Outline Dimensions (inch / mm)

B	D	E	WT GRAMS
.70	1.98	.312	42.0
(17.78)	(50.29)	(7.92)	

typical frequency response



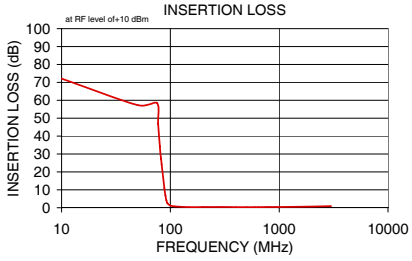
electrical schematic



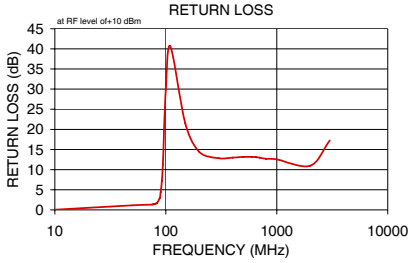
Typical Performance Data

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

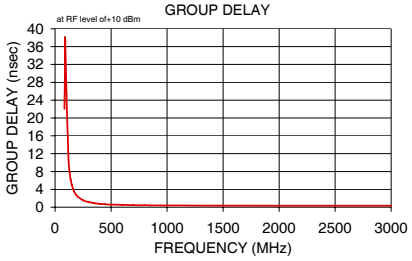
SHP-100A+
INSERTION LOSS



SHP-100A+
RETURN LOSS



SHP-100A+
GROUP DELAY



Notes

A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

REV. D
ECO-024585
SHP-100A+
MCL NY
250219

Mini-Circuits®
www.minicircuits.com P.O. Box 35166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com