

Coaxial High Pass Filter

50Ω 700 to 3000 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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

Features

- rugged shielded case
- other standard and custom SHP models available with wide selection of fco

Applications

- lab use
- transmitters/receivers
- radio communications

SHP-700+



CASE STYLE: FF99

Connectors	Model
SMA	SHP-700+

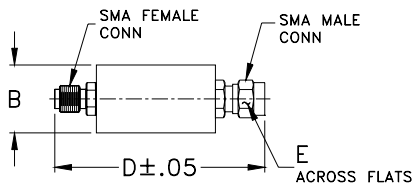
+RoHS Compliant

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)	Stopband Typ.	Passband Typ.
DC-400	400-520	640	700-3000	17	1.6

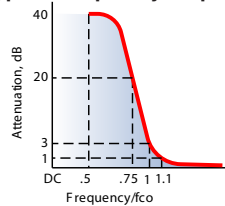
Outline Drawing



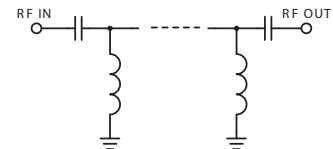
Outline Dimensions (inch)

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

typical frequency response

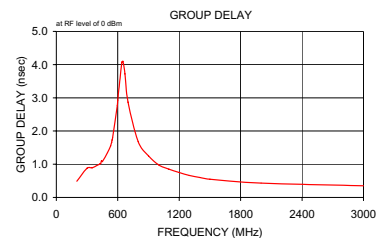
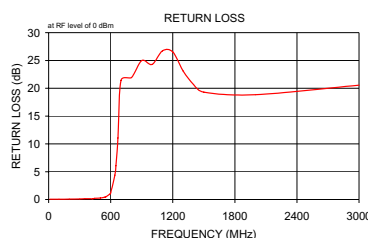
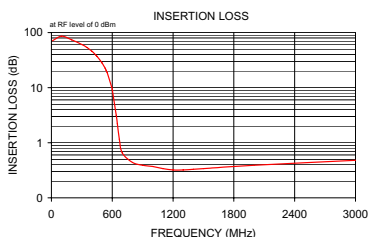


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	71.13	3.73	0.05	200.00	0.49
100.00	86.10	2.60	0.05	300.00	0.88
200.00	73.72	0.25	0.07	350.00	0.89
300.00	60.72	0.42	0.10	400.00	0.97
350.00	53.62	0.27	0.15	425.00	1.01
400.00	45.60	0.35	0.15	433.00	1.02
425.00	41.41	0.44	0.12	441.00	1.10
441.00	38.65	0.51	0.20	450.00	1.08
450.00	37.09	0.54	0.22	500.00	1.35
500.00	28.11	0.74	0.26	530.00	1.55
530.00	22.58	0.88	0.36	535.00	1.61
540.00	20.70	0.93	0.40	540.00	1.66
545.00	19.75	0.96	0.42	545.00	1.73
550.00	18.80	0.98	0.44	550.00	1.80
595.00	10.16	1.20	1.01	595.00	2.77
600.00	9.24	1.21	1.17	600.00	2.92
640.00	3.13	0.83	4.36	640.00	4.07
650.00	2.21	0.63	6.07	650.00	4.10
670.00	1.15	0.28	11.07	670.00	3.72
700.00	0.65	0.04	21.39	700.00	2.87
800.00	0.44	0.01	21.92	800.00	1.68
900.00	0.39	0.02	24.99	900.00	1.25
1000.00	0.37	0.02	24.30	1000.00	0.98
1100.00	0.34	0.01	26.73	1100.00	0.85
1200.00	0.32	0.01	26.52	1200.00	0.75
1300.00	0.32	0.01	23.09	1300.00	0.66
1400.00	0.33	0.02	20.67	1400.00	0.60
1500.00	0.34	0.02	19.29	1500.00	0.55
2000.00	0.39	0.02	18.85	2000.00	0.43
3000.00	0.48	0.02	20.55	3000.00	0.35



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.
- 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



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. D
M151107
SHP-700+
150930