

Coaxial High Pass Filter

50Ω 1000 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-1000+



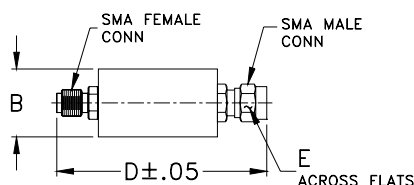
CASE STYLE: FF99

Connectors Model
SMA SHP-1000+

+RoHS Compliant

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

Outline Drawing



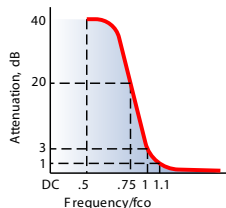
Outline Dimensions (inch/mm)

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

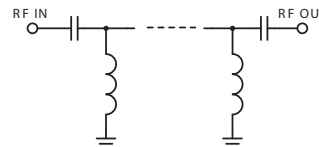
High Pass Filter Electrical Specifications

STOPBAND (MHz)	fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)
(loss > 40 dB)		(loss < 1 dB)	Stopband Typ. Passband Typ.
DC-550	550-720	900	17 1.9

typical frequency response

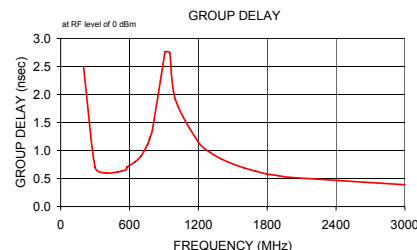
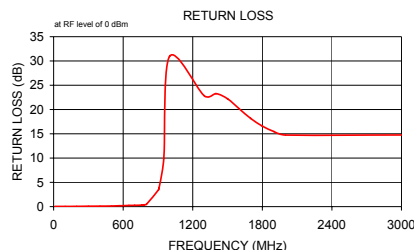
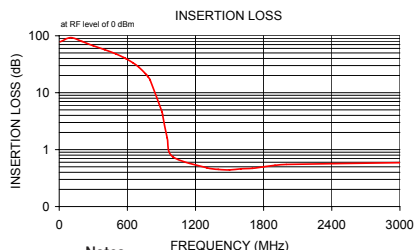


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$ σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	78.36 9.58	0.04	200.00	2.49
100.00	92.78 5.61	0.04	300.00	0.70
200.00	79.46 0.24	0.06	400.00	0.60
300.00	66.75 0.59	0.08	500.00	0.62
400.00	57.09 0.36	0.10	570.00	0.66
500.00	47.95 0.34	0.13	575.00	0.70
570.00	41.39 0.36	0.18	580.00	0.71
575.00	40.90 0.36	0.18	585.00	0.71
580.00	40.42 0.36	0.18	590.00	0.72
590.00	39.42 0.35	0.18	650.00	0.80
650.00	33.45 0.38	0.24	700.00	0.90
700.00	28.16 0.40	0.26	760.00	1.12
760.00	21.52 0.44	0.32	770.00	1.18
770.00	20.37 0.44	0.35	775.00	1.21
775.00	19.78 0.45	0.37	780.00	1.24
780.00	19.20 0.45	0.39	800.00	1.37
800.00	16.84 0.47	0.48	905.00	2.71
905.00	4.61 0.38	3.48	910.00	2.76
910.00	4.15 0.35	3.92	950.00	2.74
950.00	1.62 0.14	9.92	1000.00	1.91
1000.00	0.75 0.01	30.95	1200.00	1.15
1300.00	0.48 0.01	22.80	1300.00	0.97
1400.00	0.45 0.01	23.28	1400.00	0.85
1500.00	0.44 0.01	22.21	1500.00	0.76
1600.00	0.46 0.02	20.17	1600.00	0.69
1700.00	0.47 0.02	18.16	1700.00	0.63
1800.00	0.50 0.02	16.58	1800.00	0.58
1900.00	0.53 0.02	15.46	1900.00	0.55
2000.00	0.55 0.03	14.74	2000.00	0.52
3000.00	0.59 0.03	14.76	3000.00	0.39



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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