

Coaxial High Pass Filter

50Ω 600 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-600+



CASE STYLE: FF99

Connectors	Model
SMA	SHP-600+

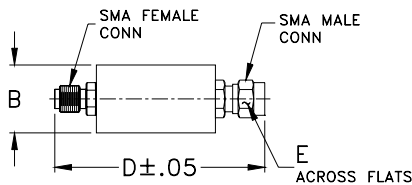
+RoHS Compliant

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-350	350-440	545	600-3000	17	2.0

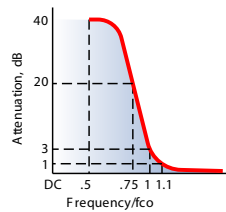
Outline Drawing



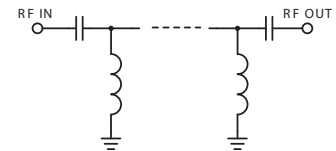
Outline Dimensions (inch/mm)

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

typical frequency response

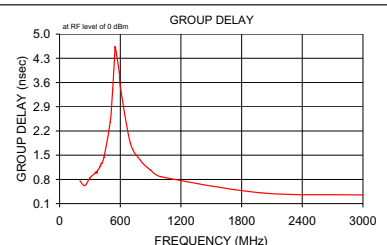
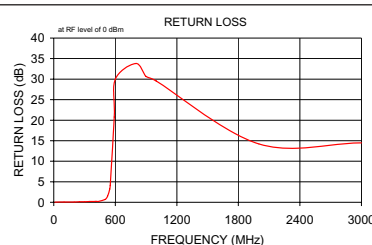
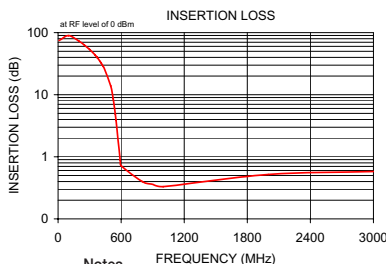


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ			
10.00	74.47	4.27	0.04	200.00	0.76
100.00	89.80	7.14	0.05	250.00	0.62
200.00	72.58	0.82	0.07	300.00	0.84
250.00	63.01	0.88	0.12	350.00	0.98
300.00	53.56	0.81	0.12	360.00	1.01
350.00	44.05	0.88	0.18	362.00	1.02
360.00	42.15	0.91	0.18	364.00	0.99
364.00	41.37	0.91	0.18	366.00	1.00
366.00	40.99	0.91	0.19	368.00	1.00
368.00	40.60	0.92	0.19	370.00	0.99
370.00	40.22	0.92	0.19	372.00	1.02
372.00	39.82	0.92	0.18	374.00	1.05
374.00	39.45	0.93	0.19	376.00	1.06
376.00	39.06	0.93	0.19	400.00	1.17
400.00	34.36	0.98	0.20	410.00	1.25
410.00	32.39	1.00	0.22	420.00	1.27
420.00	30.45	1.01	0.19	430.00	1.35
430.00	28.45	1.04	0.21	440.00	1.44
440.00	26.44	1.06	0.23	500.00	2.45
500.00	13.91	1.14	0.68	525.00	3.40
525.00	8.60	1.05	1.46	545.00	4.39
545.00	4.82	0.82	3.18	551.00	4.63
551.00	3.88	0.72	4.10	590.00	3.90
590.00	0.89	0.15	20.77	600.00	3.49
600.00	0.72	0.07	29.98	700.00	1.85
800.00	0.40	0.03	33.79	800.00	1.35
900.00	0.36	0.03	30.63	900.00	1.07
1000.00	0.33	0.01	29.54	1000.00	0.88
2000.00	0.52	0.05	14.20	2000.00	0.41
3000.00	0.58	0.05	14.47	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.
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