

# Coaxial Low Pass Filter

## SLP-800+

50Ω DC to 720 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

- good attenuation rate, 1.35 typ. 20dB/ 3dB BW ratio
- rugged shielded case
- other SLP models available with wide selection of cut-off frequencies

### Applications

- lab use
- test equipment
- video equipment



Generic photo used for illustration purposes only

CASE STYLE: FF99

Connectors	Model
SMA	SLP-800+

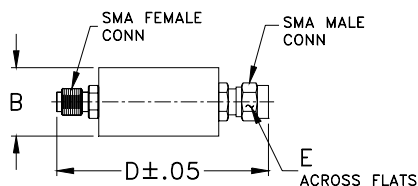
**+RoHS Compliant**

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

### Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
		(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-720	800	1080-1400	1400-2000	1.7	18

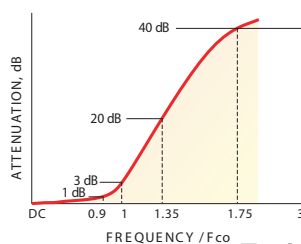
### Outline Drawing



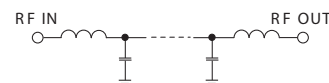
### Outline Dimensions (inch/mm)

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

### typical frequency response

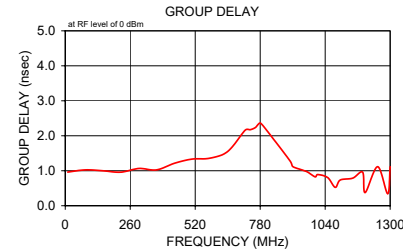
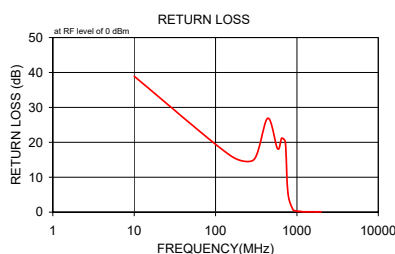
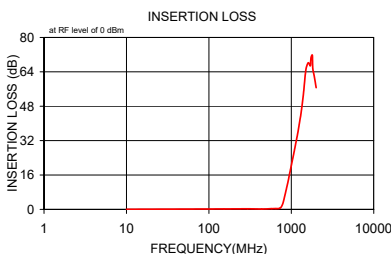


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	0.04	38.9	10.0	0.96
152.50	0.20	16.2	80.0	1.03
295.00	0.26	15.0	152.5	1.00
437.50	0.18	26.9	222.5	0.96
577.50	0.32	18.2	295.0	1.07
650.00	0.35	21.2	365.0	1.03
720.00	0.48	20.1	437.5	1.22
760.00	1.36	8.0	507.5	1.33
800.00	3.45	3.7	577.5	1.36
900.00	11.91	0.6	650.0	1.55
950.00	16.24	0.4	720.0	2.16
1000.00	20.40	0.3	740.0	2.17
1010.00	21.22	0.2	760.0	2.23
1050.00	24.40	0.2	780.0	2.36
1080.00	26.70	0.2	800.0	2.21
1100.00	28.21	0.2	900.0	1.27
1190.00	34.98	0.1	910.0	1.12
1250.00	39.81	0.1	950.0	1.02
1290.00	43.03	0.1	970.0	0.96
1300.00	43.66	0.1	1000.0	0.83
1400.00	53.30	0.1	1010.0	0.89
1500.00	64.81	0.1	1050.0	0.80
1600.00	68.20	0.1	1080.0	0.53
1700.00	66.77	0.1	1100.0	0.73
1720.00	68.97	0.1	1150.0	0.79
1735.00	70.75	0.1	1190.0	0.96
1800.00	71.72	0.1	1200.0	0.38
1820.00	65.74	0.1	1250.0	1.12
1900.00	61.76	0.1	1290.0	0.35
2000.00	56.62	0.1	1300.0	1.12



### 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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