

Low Pass Filter

50Ω DC to 270 MHz

Maximum Ratings

Operating Temperature -55°C to +100°C

Storage Temperature -55°C to +100°C

RF Power Input 0.5 W max.

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

Features

- Good Attenuation Rate, 1.35 Typ. 20 dB / 3 dB BW Ratio
- Rugged Shielded Case
- Other SLP Models Available with Wide Selection of Cut-Off Frequencies

Applications

- Lab Use
- Test Equipment
- Video Equipment

SLP-300+



Generic photo used for illustration purposes only

CASE STYLE: FF99

Connectors	Model
SMA	SLP-300+

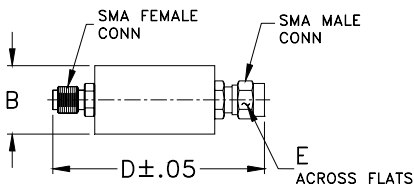
+RoHS Compliant

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

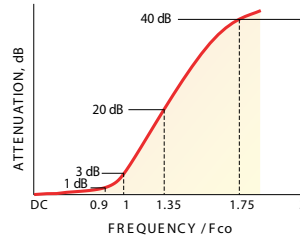
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-270	297	410-550	550-1200	1.7	18

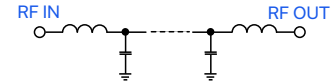
Outline Drawing



typical frequency response



electrical schematic

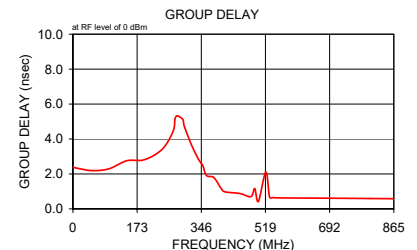
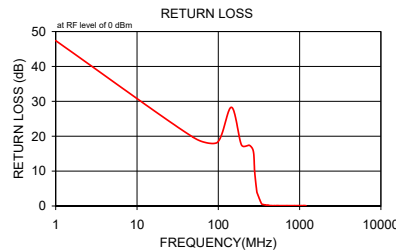
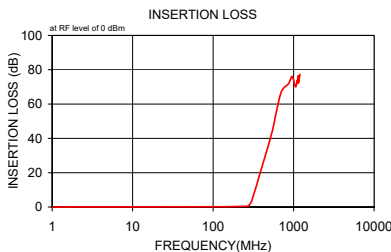


Outline Dimensions (inch/mm)

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

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
$\bar{x}$	σ			
1.00	0.02	0.1	1.00	2.37
49.00	0.13	0.1	49.00	2.20
97.00	0.17	0.1	97.00	2.29
145.00	0.15	0.1	145.00	2.76
193.00	0.28	0.1	193.00	2.82
241.00	0.36	0.1	241.00	3.42
270.00	0.53	0.1	270.00	4.45
280.00	1.00	0.1	275.00	5.14
297.00	2.83	0.2	280.00	5.33
300.00	3.29	0.2	290.00	5.24
340.00	11.27	0.3	297.00	5.08
360.00	15.31	0.3	300.00	4.75
380.00	19.09	0.4	320.00	3.64
400.00	22.62	0.4	340.00	2.79
410.00	24.31	0.4	350.00	2.49
450.00	30.64	0.6	360.00	1.91
490.00	36.51	0.9	380.00	1.79
520.00	40.88	1.2	400.00	1.15
530.00	42.34	1.3	410.00	0.98
540.00	43.72	1.3	450.00	0.88
550.00	45.07	1.5	480.00	0.70
700.00	66.82	5.7	490.00	1.16
864.00	71.78	6.6	500.00	0.43
960.00	76.06	6.9	520.00	2.11
1056.00	70.05	3.2	530.00	0.67
1110.00	73.87	7.7	540.00	0.65
1120.00	72.31	5.1	550.00	0.63
1140.00	76.33	5.1	700.00	0.61
1150.00	72.33	3.5	800.00	0.59
1200.00	77.29	5.8	864.00	0.58



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-Circuits' 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

