

Low Pass Filter

50Ω DC to 520 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

SLP-550+



Generic photo used for illustration purposes only

CASE STYLE: FF99

Connectors Model
SMA SLP-550+

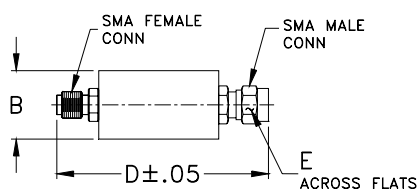
+RoHS Compliant

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-520	570	750-920	920-2000	1.7	18

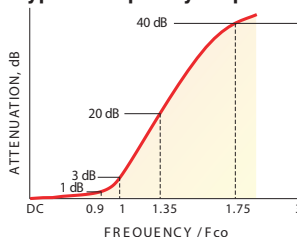
Outline Drawing



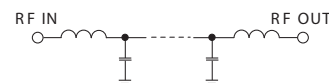
Outline Dimensions (inch/mm)

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

typical frequency response

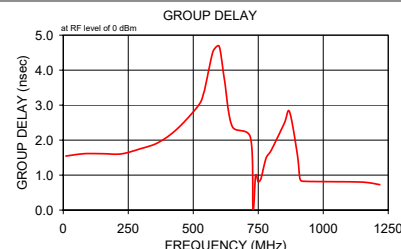
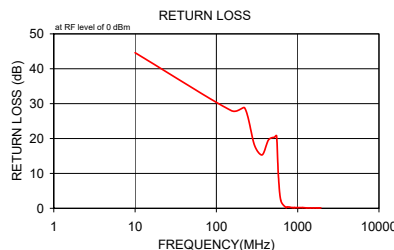


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
$\bar{x}$	σ			
10.00	0.02	0.1	10.00	1.55
152.50	0.10	0.1	80.00	1.61
222.50	0.15	0.1	152.50	1.61
295.00	0.27	0.1	222.50	1.61
365.00	0.38	0.1	295.00	1.75
437.50	0.36	0.1	365.00	1.93
520.00	0.57	0.1	437.50	2.32
550.00	0.75	0.1	520.00	2.99
570.00	1.17	0.3	540.00	3.34
580.00	1.68	0.4	550.00	3.66
620.00	7.07	1.1	570.00	4.37
720.00	26.51	1.6	580.00	4.59
730.00	28.52	1.6	600.00	4.68
740.00	29.95	1.6	620.00	3.72
750.00	31.57	1.6	650.00	2.39
760.00	33.24	1.7	720.00	2.08
800.00	39.85	1.9	730.00	0.04
870.00	50.78	2.4	740.00	0.99
900.00	55.60	2.9	750.00	0.81
910.00	58.10	4.7	760.00	0.89
920.00	59.19	4.2	780.00	1.49
1147.50	68.70	3.0	800.00	1.71
1290.00	68.19	3.5	850.00	2.48
1432.50	69.02	4.4	870.00	2.81
1572.50	75.22	5.7	900.00	1.61
1715.00	73.18	5.2	910.00	0.91
1787.50	71.84	3.4	920.00	0.83
1857.50	71.44	3.7	1147.50	0.80
1930.00	71.78	6.9	1217.50	0.73
2000.00	68.82	2.1	1290.00	0.65



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.
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