

Low Pass Filter

SBLP-200+

50Ω Flat Time Delay DC to 120 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

- flat group delay for low pulse distortion
- rugged shielded case
- other SBLP models available with wide selection of cut-off frequencies

Applications

- linear modulation techniques
- voice transmission applications
- digital communications



CASE STYLE: FF99			
Connectors	Model	Price	Qty.
SMA	SBLP-200+	\$38.95 ea.	(1-9)

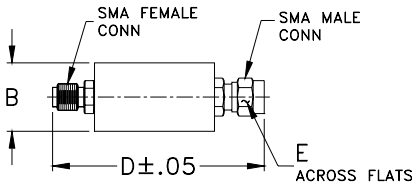
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify 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)		GROUP DELAY VARIATION (nsec)		
		(loss > 10 dB)	(loss > 20 dB)	DC-0.2fco	DC-0.6fco	DC-fco	DC-2fco	DC-2.67fco
(loss < 1.2 dB) Min.	(loss 3 dB)			\bar{X}	\bar{X}	\bar{X}	\bar{X}	\bar{X}
DC-120	200	400-534	534	1.6:1	1.9:1	0.4	1.3	1.6

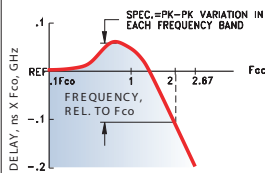
Outline Drawing



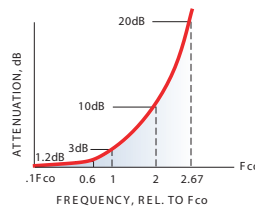
Outline Dimensions (inch/mm)

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

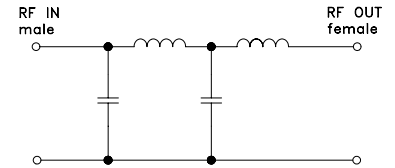
TYPICAL GROUP DELAY



TYPICAL FREQUENCY RESPONSE INSERTION LOSS

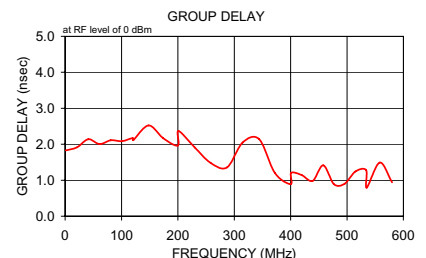
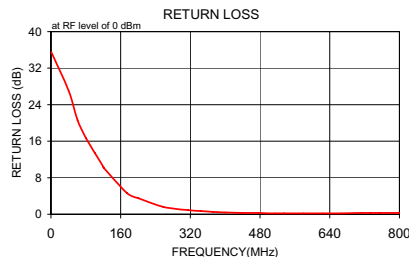
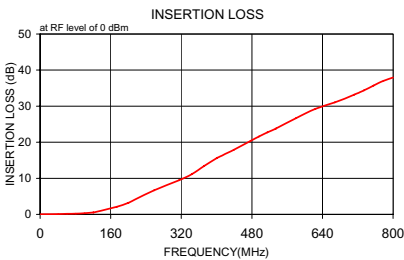


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	\bar{X}	σ			
1.0	0.04	0.1	35.5	1.0	1.829
41.0	0.10	0.1	27.0	21.0	1.915
61.0	0.16	0.1	20.6	41.0	2.140
81.0	0.22	0.1	16.6	61.0	2.006
101.0	0.33	0.1	13.4	81.0	2.109
120.0	0.52	0.1	10.4	101.0	2.087
121.0	0.53	0.1	10.2	120.0	2.170
174.0	2.10	0.1	4.7	121.0	2.113
200.0	3.22	0.1	3.5	148.0	2.521
201.0	3.26	0.1	3.5	174.0	2.169
258.0	6.65	0.2	1.6	200.0	1.964
315.0	9.45	0.2	0.9	201.0	2.367
344.0	11.17	0.3	0.7	230.0	1.912
372.0	13.45	0.4	0.5	258.0	1.485
400.0	15.58	0.5	0.4	287.0	1.356
401.0	15.65	0.5	0.4	315.0	2.048
439.0	17.90	0.7	0.3	344.0	2.142
477.0	20.36	0.8	0.3	372.0	1.206
496.0	21.60	0.8	0.2	400.0	0.894
515.0	22.72	0.9	0.2	401.0	1.205
534.0	23.75	0.9	0.2	420.0	1.143
535.0	23.81	0.9	0.2	439.0	0.984
580.0	26.67	1.0	0.2	458.0	1.412
624.0	29.26	1.0	0.2	477.0	0.888
668.0	31.05	1.1	0.2	496.0	0.903
712.0	33.19	1.2	0.3	515.0	1.244
734.0	34.36	1.2	0.3	534.0	1.282
756.0	35.72	1.2	0.3	535.0	0.796
778.0	37.00	1.2	0.3	558.0	1.491
800.0	37.94	1.1	0.3	580.0	0.941



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IF/RF MICROWAVE COMPONENTS

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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuits' applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

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