

Low Pass Filter

SBLP-467+

50Ω Flat Time Delay DC to 280 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-467+	\$38.95 ea.	(1-9)

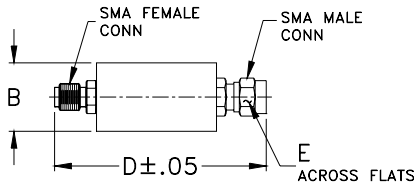
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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) (loss < 1.2 dB) Min.	fco, MHz Nom. (loss 3 dB)	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
DC-280	467	934-1246	1246	\bar{X}	\bar{X}	\bar{X}	\bar{X}	\bar{X}
				1.25:1	2.2:1	0.15	0.4	0.55

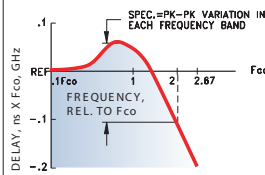
Outline Drawing



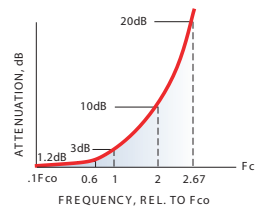
Outline Dimensions (inch/mm)

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

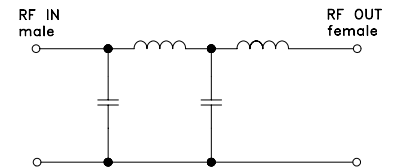
TYPICAL GROUP DELAY



TYPICAL FREQUENCY RESPONSE INSERTION LOSS

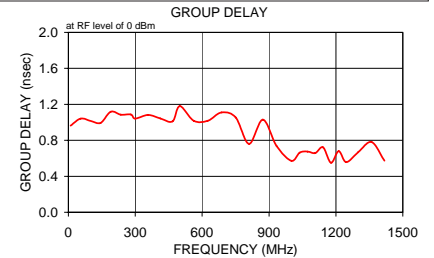
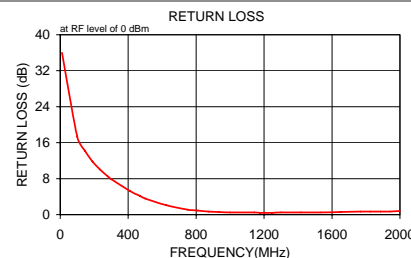
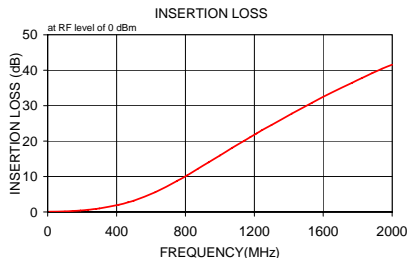


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	\bar{X}	σ			
10.0	0.07	0.1	36.0	10.0	0.963
100.0	0.18	0.1	17.3	55.0	1.041
145.0	0.28	0.1	14.2	100.0	1.016
190.0	0.42	0.1	11.8	145.0	0.994
235.0	0.61	0.1	10.0	190.0	1.118
280.0	0.85	0.1	8.5	235.0	1.085
300.0	0.98	0.1	7.9	280.0	1.088
412.0	2.01	0.1	5.2	300.0	1.042
467.0	2.72	0.1	4.2	357.5	1.083
500.0	3.19	0.2	3.6	412.5	1.043
625.0	5.57	0.2	2.1	467.0	1.010
750.0	8.71	0.3	1.1	500.0	1.180
810.0	10.34	0.4	0.9	562.5	1.017
872.0	12.19	0.4	0.7	625.0	1.017
934.0	14.02	0.5	0.6	687.5	1.110
1000.0	15.94	0.5	0.5	750.0	1.055
1072.5	18.12	0.6	0.5	810.0	0.762
1142.5	20.11	0.7	0.5	872.5	1.030
1177.5	21.14	0.7	0.4	934.0	0.736
1212.5	22.15	0.7	0.4	1000.0	0.572
1246.0	23.12	0.8	0.4	1037.5	0.663
1300.0	24.56	0.8	0.5	1072.5	0.675
1417.5	27.75	0.9	0.5	1107.5	0.659
1535.0	30.82	1.0	0.5	1142.5	0.722
1650.0	33.70	1.1	0.6	1177.5	0.551
1767.5	36.46	1.2	0.7	1212.5	0.679
1825.0	37.83	1.5	0.7	1246.0	0.558
1885.0	39.23	1.6	0.7	1300.0	0.668
1942.5	40.45	1.6	0.7	1360.0	0.781
2000.0	41.59	1.8	0.8	1417.5	0.573



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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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-Circuit's 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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