

Low Pass Filter

BBLP-39+

50Ω Flat Time Delay DC to 23 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 BBLP models available with wide selection of cut-off frequencies

Applications

- linear modulation techniques
- voice transmission applications
- digital communications



Generic photo used for illustration purposes only

CASE STYLE: FF55

Connectors Model
BNC BBLP-39+

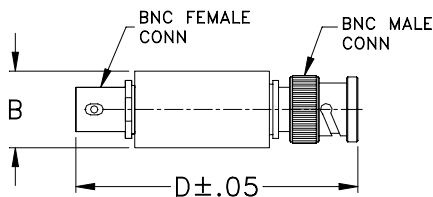
+RoHS Compliant

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

Filter Electrical Specifications

PASSBAND (MHz)	fco, (MHz) Nom.	STOPBAND (MHz)	VSWR (:1)	GROUP DELAY VARIATION (nsec)
(loss < 1.2 dB) Min.	(loss 3 dB)	(loss > 10 dB) (loss > 20 dB)	DC-0.2fco DC-0.6fco X X	DC-fco DC-2fco DC-2.67fco X X X
DC-23	39	78-117 117	1.3:1 2.3:1	0.7 4.0 5.0

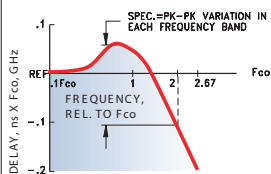
Outline Drawing



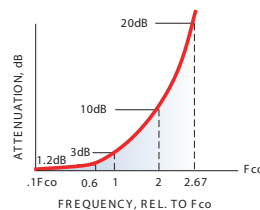
Outline Dimensions (inch)

B	D	wt
.54	2.59	grams
13.72	65.79	40.0

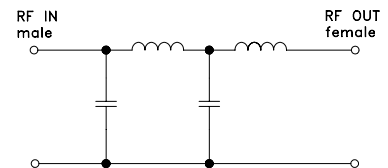
TYPICAL GROUP DELAY



TYPICAL FREQUENCY RESPONSE INSERTION LOSS

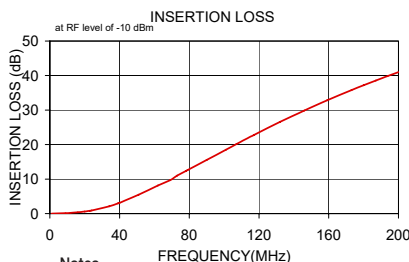


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	X	σ		
1.0	0.02	0.00	1.0	8.012
9.0	0.14	0.00	5.0	8.243
12.0	0.23	0.01	9.0	7.823
16.0	0.38	0.01	12.0	8.199
20.0	0.60	0.02	16.0	8.305
23.0	0.82	0.02	20.0	8.466
24.0	0.91	0.02	23.0	8.623
34.0	2.11	0.03	24.0	8.392
39.0	2.95	0.04	29.0	8.899
40.0	3.14	0.04	34.0	8.378
51.0	5.48	0.06	39.0	8.392
62.0	8.15	0.07	40.0	8.247
69.0	9.69	0.08	46.0	7.722
73.0	11.00	0.09	51.0	7.336
78.0	12.33	0.10	57.0	6.804
79.0	12.60	0.10	62.0	6.487
90.0	15.56	0.13	68.0	6.306
101.0	18.53	0.15	73.0	5.277
107.0	20.14	0.16	78.0	5.124
112.0	21.46	0.16	79.0	5.489
117.0	22.76	0.17	85.0	5.101
118.0	23.02	0.17	90.0	4.784
132.0	26.55	0.17	96.0	4.054
146.0	29.88	0.17	101.0	3.996
159.0	32.80	0.17	107.0	3.275
173.0	35.76	0.16	112.0	3.856
180.0	37.17	0.15	117.0	2.547
187.0	38.55	0.16	118.0	2.738
194.0	39.89	0.15	125.0	2.216
200.0	41.00	0.16	132.0	2.576



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-Circuit's applicable established test performance criteria and measurement instructions.
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