

Low Pass Filter

BBLP-117

50Ω Flat Time Delay DC to 65 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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



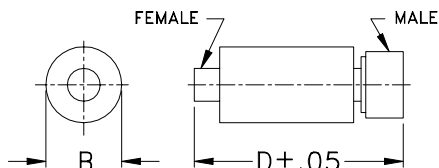
CASE STYLE: FF55

Connectors	Model	Price	Qty.
BNC	BBLP-117	\$36.95 ea.	(1-9)

Low Pass 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-2.2fco DC-2.6fco	DC-fco DC-2fco DC-2.67fco
DC-65	117	234-312 312	1.3:1 2.4:1	0.35 1.4 1.9

Outline Drawing

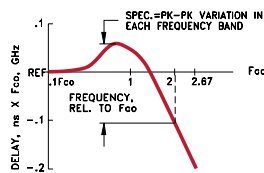


B—OVERALL BODY DIMENSION

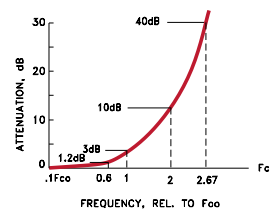
Outline Dimensions (inch/mm)

B	D	wt
.54	2.59	grams
13.72	65.79	40.0

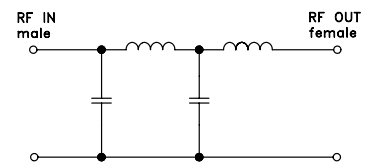
TYPICAL GROUP DELAY



TYPICAL FREQUENCY RESPONSE



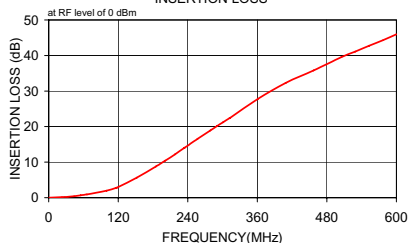
electrical schematic



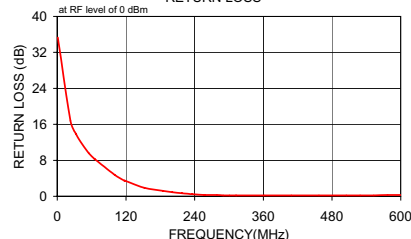
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
1.0	0.02	0.1	35.3	3.075
23.0	0.15	0.1	16.8	3.015
33.0	0.26	0.1	13.8	3.252
44.0	0.42	0.1	11.5	3.331
55.0	0.65	0.1	9.6	3.126
65.0	0.90	0.1	8.3	3.140
66.0	0.92	0.1	8.2	3.044
100.0	1.96	0.1	4.8	3.271
117.0	2.80	0.1	3.5	3.303
118.0	2.86	0.1	3.5	3.348
152.0	5.63	0.1	1.9	3.233
185.0	8.79	0.2	1.2	3.593
201.0	10.40	0.2	0.9	3.409
218.0	12.20	0.2	0.7	2.782
234.0	13.99	0.2	0.5	2.798
235.0	14.10	0.2	0.5	2.689
257.0	16.54	0.3	0.3	2.681
279.0	18.92	0.4	0.3	2.252
290.0	20.08	0.5	0.2	2.060
301.0	21.23	0.5	0.2	2.038
312.0	22.36	0.6	0.2	1.965
313.0	22.46	0.6	0.2	1.759
361.0	27.82	0.7	0.2	1.562
409.0	32.27	0.9	0.2	1.358
457.0	35.79	1.0	0.2	1.372
505.0	39.52	1.3	0.2	1.483
529.0	41.10	1.4	0.2	1.659
553.0	42.74	1.6	0.2	1.765
577.0	44.30	1.5	0.3	1.324
600.0	45.95	2.0	0.3	1.555

INSERTION LOSS



RETURN LOSS



GROUP DELAY

