

Coaxial

Low Pass Filter

NON-CATALOG

BBLP-200+
BBLP-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.

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-200(+)	Contact Sales Dept.	

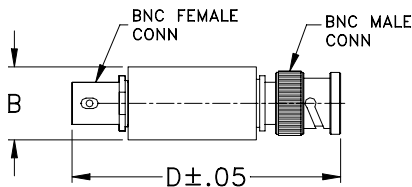
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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)	GROUP DELAY VARIATION (nsec)
(loss < 1.2 dB) Min.	(loss 3 dB)	(loss > 10 dB) (loss > 20 dB)	DC-0.2fco DC-0.6fco	DC-fco DC-2fco DC-2.67fco
DC-120	200	400-534 534	1.6:1 1.9:1	0.4 1.3 1.6

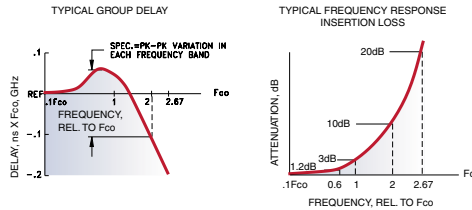
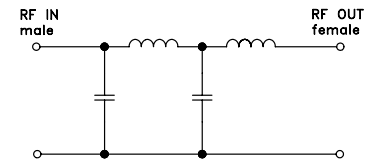
Outline Drawing



Outline Dimensions (inch)

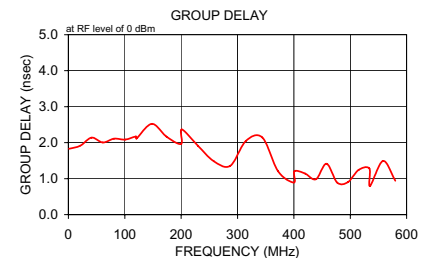
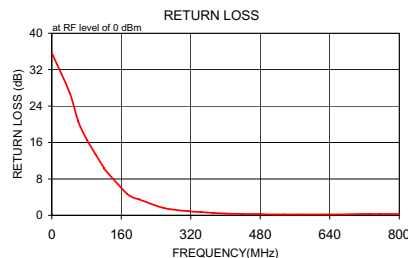
B	D	wt
.54	2.59	grams
13.72	65.79	40.0

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	1.0	1.829
41.0	0.10	0.1	21.0	1.915
61.0	0.16	0.1	41.0	2.140
81.0	0.22	0.1	61.0	2.006
101.0	0.33	0.1	81.0	2.109
120.0	0.52	0.1	101.0	2.087
121.0	0.53	0.1	120.0	2.170
174.0	2.10	0.1	121.0	2.113
200.0	3.22	0.1	148.0	2.521
201.0	3.26	0.1	174.0	2.169
258.0	6.65	0.2	200.0	1.964
315.0	9.45	0.2	201.0	2.367
344.0	11.17	0.3	230.0	1.912
372.0	13.45	0.4	258.0	1.485
400.0	15.58	0.5	287.0	1.356
401.0	15.65	0.5	315.0	2.048
439.0	17.90	0.7	344.0	2.142
477.0	20.36	0.8	372.0	1.206
496.0	21.60	0.8	400.0	0.894
515.0	22.72	0.9	401.0	1.205
534.0	23.75	0.9	420.0	1.143
535.0	23.81	0.9	439.0	0.984
580.0	26.67	1.0	458.0	1.412
624.0	29.26	1.0	477.0	0.888
668.0	31.05	1.1	496.0	0.903
712.0	33.19	1.2	515.0	1.244
734.0	34.36	1.2	534.0	1.282
756.0	35.72	1.2	535.0	0.796
778.0	37.00	1.2	558.0	1.491
800.0	37.94	1.1	580.0	0.941



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REV. A
 M98898
 BBLP-200
 070509

Coaxial Low Pass Filter (Flat Time Delay)

BBLP-200

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
1.0	0.04	35.50	1.0	1.829
41.0	0.10	27.00	21.0	1.915
61.0	0.16	20.60	41.0	2.140
81.0	0.22	16.60	61.0	2.006
101.0	0.33	13.40	81.0	2.109
120.0	0.52	10.40	101.0	2.087
121.0	0.53	10.20	120.0	2.170
174.0	2.10	4.70	121.0	2.113
200.0	3.22	3.50	148.0	2.521
201.0	3.26	3.50	174.0	2.169
258.0	6.65	1.60	200.0	1.964
315.0	9.45	0.90	201.0	2.367
344.0	11.17	0.70	230.0	1.912
372.0	13.45	0.50	258.0	1.485
400.0	15.58	0.40	287.0	1.356
401.0	15.65	0.40	315.0	2.048
439.0	17.90	0.30	344.0	2.142
477.0	20.36	0.30	372.0	1.206
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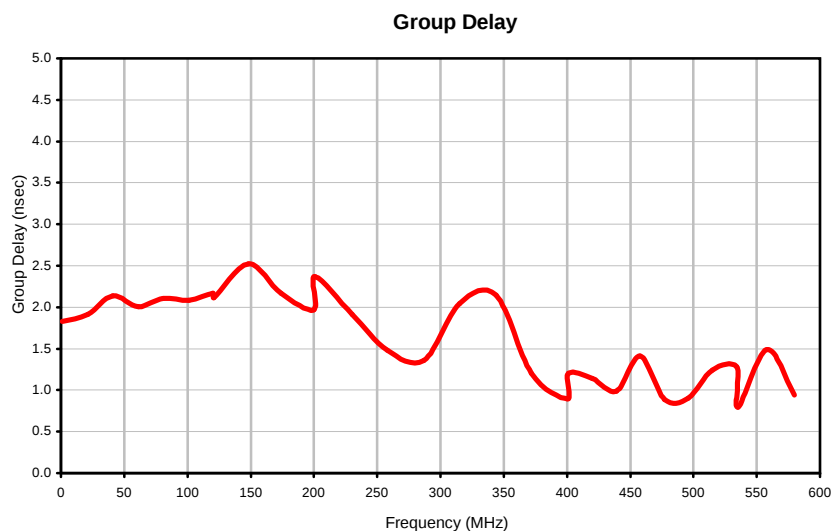
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Typical Performance Curves



REV. X1
BBLP-200
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Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF55	--	.57 (14.47)	--	2.59 (65.79)	--	40.0

Dimensions are in inches (mm). Tolerances: 2Pl. +.03/-.04; 3Pl. ± .015

Note:

- Case material: Stainless steel.



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I