

Coaxial

Low Pass Filter

NON-CATALOG

BLP-850-75+

75Ω DC to 780 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

- rugged shielded case
- other standard and custom BLP models available with wide selection of fco

Applications

- test equipment
- lab use
- video equipment



CASE STYLE: FF55

Connectors Model

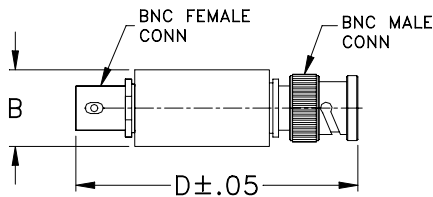
BNC BLP-850-75+

Price: Contact Sales Dept.

+RoHS Compliant

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

Outline Drawing



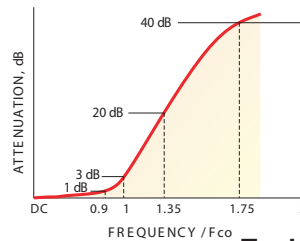
Outline Dimensions (inch/mm)

B	D	wt
.54	2.59	grams
13.72	65.79	40.0

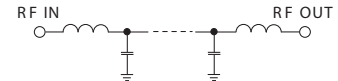
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)	VSWR (:1)
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB) (loss > 40 dB)	Passband Typ. Stopband Typ.
DC-750	850	1150-1490 1490-2000	1.7 18

typical frequency response

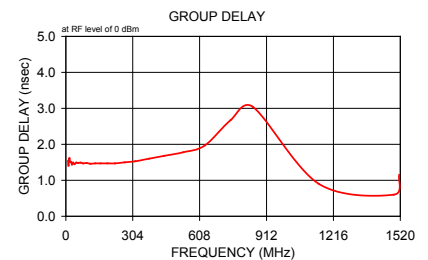
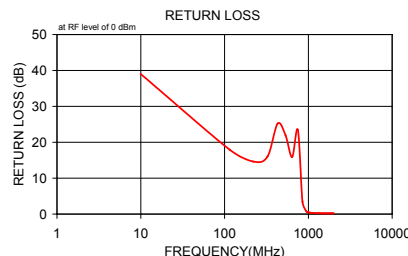
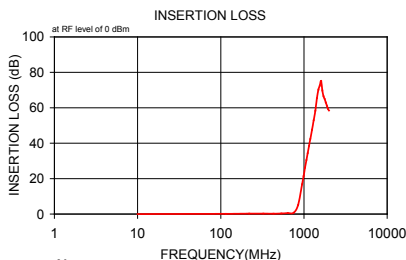


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$ σ			
10.00	0.00 0.01	39.00	10.00	1.54
115.00	0.11 0.00	17.92	11.91	1.41
220.00	0.25 0.01	14.64	14.07	1.60
325.00	0.26 0.03	16.02	16.62	1.61
430.00	0.21 0.03	25.19	19.64	1.51
535.00	0.32 0.03	21.89	23.52	1.51
640.00	0.53 0.06	15.89	27.79	1.44
750.00	0.71 0.06	23.37	33.28	1.49
850.00	5.08 1.38	3.44	39.32	1.45
950.00	16.83 2.42	0.70	47.09	1.49
990.00	21.45 2.68	0.50	55.63	1.48
1030.00	26.20 2.84	0.42	66.64	1.49
1070.00	30.43 2.97	0.35	78.72	1.47
1110.00	34.44 3.19	0.31	94.29	1.48
1150.00	38.50 3.39	0.28	111.38	1.46
1190.00	42.33 3.61	0.27	133.41	1.47
1250.00	47.58 4.02	0.25	157.80	1.47
1310.00	53.01 4.55	0.26	188.78	1.47
1370.00	58.31 5.90	0.22	223.00	1.47
1430.00	65.45 9.61	0.23	267.11	1.50
1490.00	70.21 7.22	0.21	315.54	1.53
1550.00	72.57 2.22	0.20	377.96	1.60
1606.30	75.16 7.29	0.21	446.48	1.68
1662.50	69.79 3.15	0.19	534.80	1.78
1718.80	66.56 1.75	0.21	631.76	1.97
1775.00	64.92 2.48	0.20	750.00	2.68
1831.30	62.90 1.72	0.20	850.00	3.04
1887.50	61.09 1.20	0.20	1150.00	0.90
1943.80	59.41 1.25	0.21	1490.00	0.60
2000.00	58.48 1.28	0.24	1515.07	1.15



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.
 C. The parts covered by this specification document 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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 REV. C
 M153690
 BLP-850-75+
 160303

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BLP-850-75+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	0.00	39.00	10.0	1.540
115.0	0.11	17.92	11.9	1.410
220.0	0.25	14.64	14.1	1.600
325.0	0.26	16.02	16.6	1.610
430.0	0.21	25.19	19.6	1.510
535.0	0.32	21.89	23.5	1.510
640.0	0.53	15.89	27.8	1.440
750.0	0.71	23.37	33.3	1.490
850.0	5.08	3.44	39.3	1.450
950.0	16.83	0.70	47.1	1.490
990.0	21.45	0.50	55.6	1.480
1030.0	26.20	0.42	66.6	1.490
1070.0	30.43	0.35	78.7	1.470
1110.0	34.44	0.31	94.3	1.480
1150.0	38.50	0.28	111.4	1.460
1190.0	42.33	0.27	133.4	1.470
1250.0	47.58	0.25	157.6	1.470
1310.0	53.01	0.26	188.8	1.470
1370.0	58.31	0.22	223.0	1.470
1430.0	65.45	0.23	267.1	1.500
1490.0	70.21	0.21	315.5	1.530
1550.0	72.57	0.20	378.0	1.600
1606.3	75.16	0.21	446.5	1.680
1662.5	69.79	0.19	534.8	1.780
1718.8	66.56	0.21	631.8	1.970
1775.0	64.92	0.20	750.0	2.680
1831.3	62.90	0.20	850.0	3.040
1887.5	61.09	0.20	1150.0	0.900
1943.8	59.41	0.21	1490.0	0.600
2000.0	58.48	0.24	1515.1	1.150

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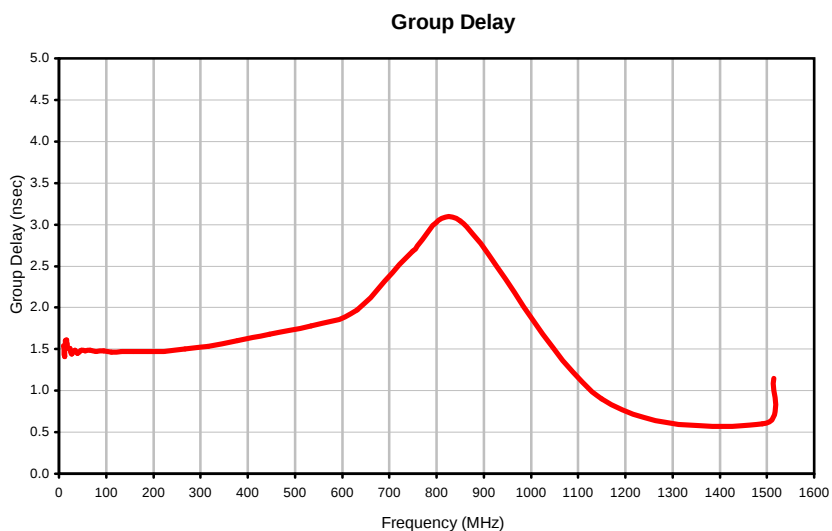
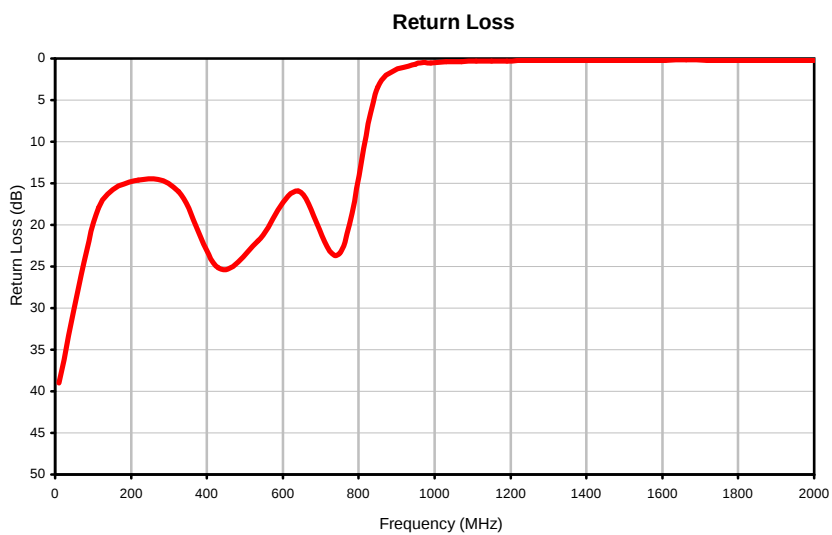
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Coaxial Low Pass Filter

Typical Performance Curves

BLP-850-75+



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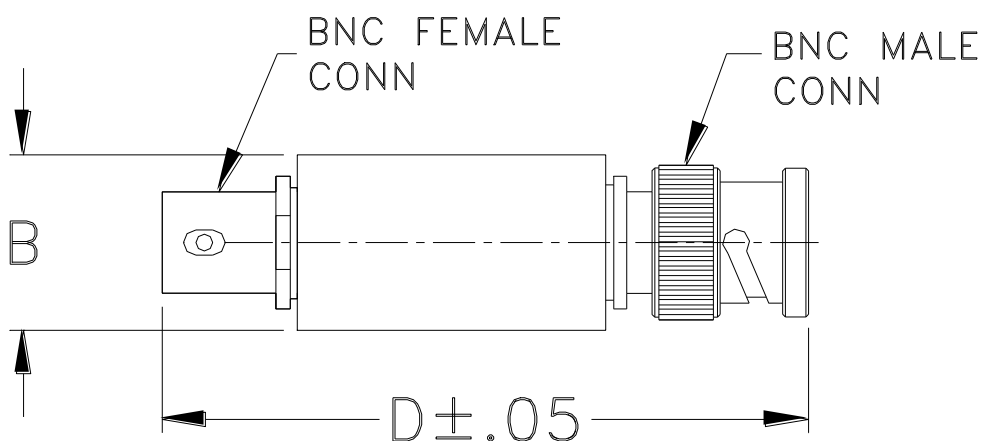


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070603
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Outline Dimensions



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