

Low Pass Filter

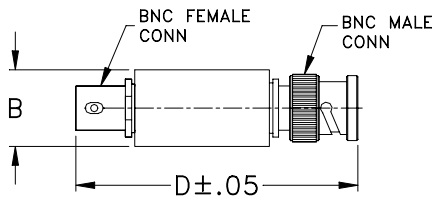
50Ω DC to 225 MHz
Maximum Ratings

Operating Temperature -55°C to 100°C

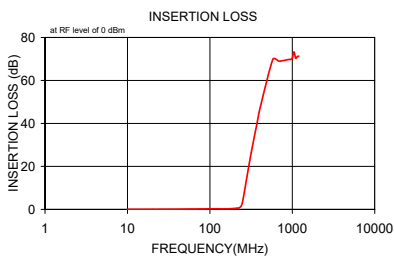
Storage Temperature -55°C to 100°C

RF Power Input 0.5W max.

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing

Outline Dimensions (inch/mm)

B	D	wt
.57	2.59	grams
14.47	65.79	40.0


Features

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

Applications

- test equipment
- lab use
- video equipment

BLP-250+


Generic photo used for illustration purposes only

CASE STYLE: FF55

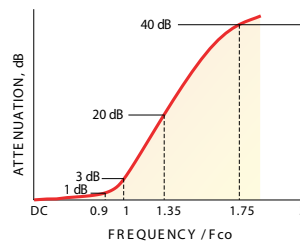
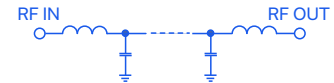
Connectors	Model
BNC	BLP-250+

+RoHS Compliant

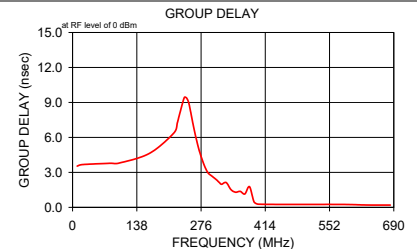
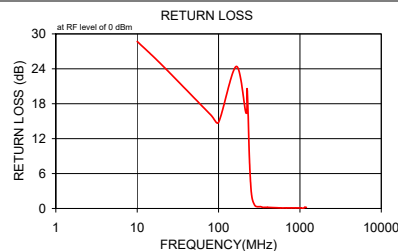
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-225	250	320-400	400-1200	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	0.03	0.1	10.00	3.54
20.00	0.03	0.1	20.00	3.66
80.00	0.20	0.1	80.00	3.78
100.00	0.28	0.1	100.00	3.80
165.00	0.27	0.1	165.00	4.63
217.50	0.60	0.1	217.50	6.37
225.00	0.64	0.1	225.00	7.25
240.00	1.59	0.3	230.00	8.00
250.00	3.87	0.6	240.00	9.42
260.00	7.27	0.9	245.00	9.37
280.00	14.62	1.0	250.00	8.91
300.00	21.27	1.1	260.00	6.90
310.00	24.28	1.2	270.00	5.18
315.00	25.71	1.2	280.00	3.91
320.00	27.12	1.3	290.00	3.02
330.00	29.77	1.3	300.00	2.66
350.00	34.87	1.6	310.00	2.33
370.00	39.35	1.9	315.00	2.14
380.00	41.63	2.0	320.00	1.98
390.00	43.91	2.3	330.00	2.13
400.00	46.09	2.7	340.00	1.53
580.00	69.80	3.0	350.00	1.30
682.50	69.02	1.5	360.00	1.37
785.00	69.27	2.4	370.00	1.15
890.00	69.72	4.5	380.00	1.78
992.50	70.16	5.1	390.00	0.46
1045.00	73.29	6.6	400.00	0.27
1097.50	70.40	5.6	580.00	0.25
1147.50	71.08	3.9	630.00	0.20
1200.00	71.31	2.1	682.50	0.20


Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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



Coaxial Low Pass Filter

BLP-250+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	0.03	28.70	10.0	3.540
20.0	0.03	24.70	20.0	3.660
80.0	0.20	16.10	80.0	3.780
100.0	0.28	14.80	100.0	3.800
165.0	0.27	24.40	165.0	4.630
217.5	0.60	16.40	217.5	6.370
225.0	0.64	20.40	225.0	7.250
240.0	1.59	8.30	230.0	8.000
250.0	3.87	3.60	240.0	9.420
260.0	7.27	1.60	245.0	9.370
280.0	14.62	0.50	250.0	8.910
300.0	21.27	0.30	260.0	6.900
310.0	24.28	0.30	270.0	5.180
315.0	25.71	0.30	280.0	3.910
320.0	27.12	0.30	290.0	3.020
330.0	29.77	0.30	300.0	2.660
350.0	34.87	0.20	310.0	2.330
370.0	39.35	0.20	315.0	2.140
380.0	41.63	0.20	320.0	1.980
390.0	43.91	0.20	330.0	2.130
400.0	46.09	0.20	340.0	1.530
580.0	69.80	0.10	350.0	1.300
682.5	69.02	0.10	360.0	1.370
785.0	69.27	0.10	370.0	1.150
890.0	69.72	0.10	380.0	1.780
992.5	70.16	0.10	390.0	0.460
1045.0	73.29	0.10	400.0	0.270
1097.5	70.40	0.00	580.0	0.250
1147.5	71.08	0.20	630.0	0.200
1200.0	71.31	0.20	682.5	0.200

REV. X1
BLP-250+
070603
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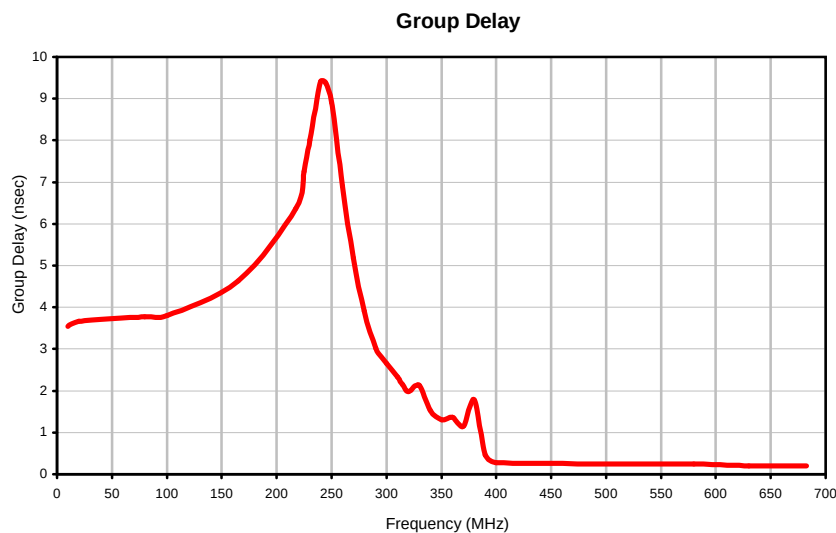
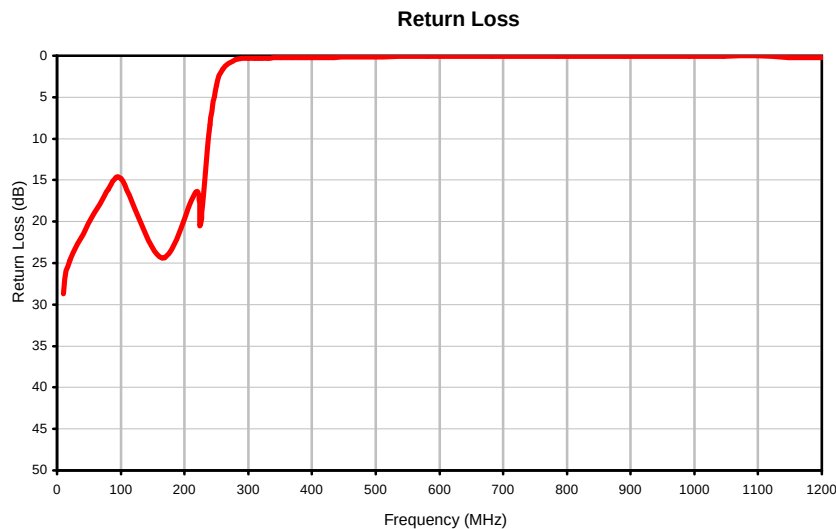
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Coaxial Low Pass Filter

BLP-250+

Typical Performance Curves



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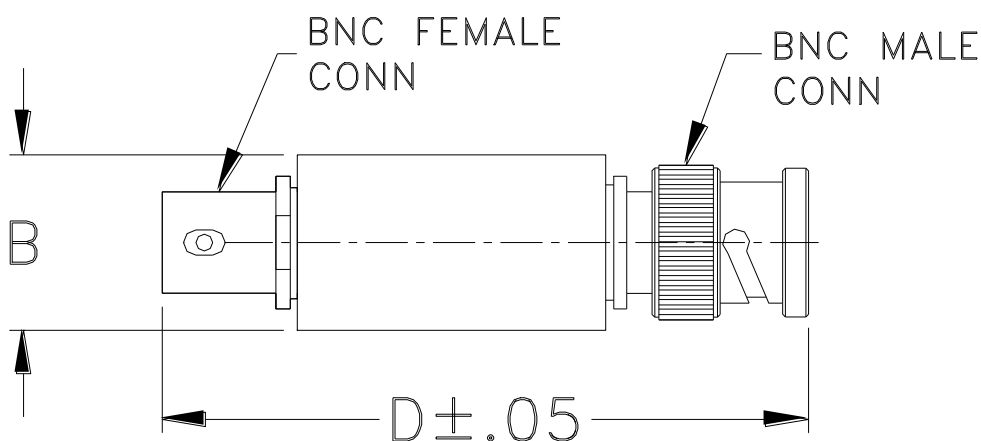


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Outline Dimensions



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