Coaxial **Low Pass Filter**

50Ω DC to 36 MHz

The Big Deal

- Low insertion loss, 0.6 dB typ.
- High rejection, 46 dB typ.
- Sharp cut-off
- Good VSWR, 1.2:1 typ. in passband
- Connectorized package

Product Overview

BLP-36+ is a 50 Ω Low pass filter in a connectorized package covering DC to 36 MHz. This filter uses miniature high Q capacitors and wire welded inductors for high reliability. This filter offers high rejection and low insertion loss. It has consistent performance across temperature and repeatable performance across production lots.

Key Features

Feature	Advantages	
Low insertion loss, 0.6 dB typ.	It enables the filter to be used in high performance applications.	
High rejection, 46 dB typ.	Attenuates unwanted spurious signals and harmonics.	
Sharp cut-off	This enables the filter rejects the near band interaction and provides the high selectivity.	
Good VSWR, 1.2:1 typical in passband	This provides good matching when used with other devices.	
Connectorized package	Easy to interface with other devices and well suited for test setups.	



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BLP-36+

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50Ω DC to 36 MHz



Generic photo used for illustration purposes only

Features

- Low insertion loss, 0.6 dB typ.
- High rejection, 46 dB typ.
- Good VSWR, 1.2:1 typical in passband
- Sharp cut-off
- Rugged shielded case
- · Connectorized package

Applications

- Defense communications
- Transmitters / Receivers
- Harmonic rejection

CASE STYLE: FF55 Model Connectors BNC BLP-36+

Electrical Specifications at 25°C

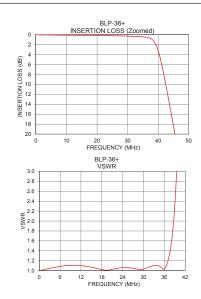
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 36	—	0.6	1	dB
Pass Band	Freq. Cut-Off	F2	40	—	3.0	—	dB
	VSWR	DC-F1	DC - 36	_	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	50 - 57	20	30	_	dB
		F4-F5	57 - 560	40	46	_	dB

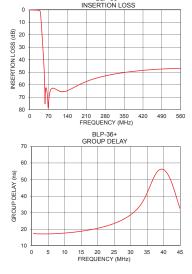
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5 W max.			

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

Typical Performance Data at 25°C

Typical Performance Data at 25 C				
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
0.5	0.02	1.01	0.5	17.55
10.0	0.09	1.11	1.0	17.46
20.0	0.13	1.01	2.0	17.24
22.0	0.15	1.04	4.0	17.23
24.0	0.17	1.06	6.0	17.26
30.0	0.26	1.03	8.0	17.45
35.0	0.42	1.07	10.0	17.72
36.0	0.48	1.03	12.0	18.07
39.5	2.35	2.95	14.0	18.54
40.0	3.21	3.87	16.0	19.10
45.0	18.33	39.24	18.0	19.78
48.0	28.25	66.32	20.0	20.59
50.0	35.06	81.17	22.0	21.58
57.0	74.13	117.09	24.0	22.79
100.0	64.09	139.19	26.0	24.31
200.0	58.30	77.39	28.0	26.24
300.0	52.04	60.62	30.0	28.75
400.0	48.93	56.29	36.0	46.56
500.0	47.33	55.47	37.0	51.16
560.0	47.04	55.98	40.0	55.99





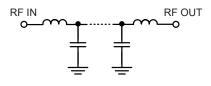
BI P-36+

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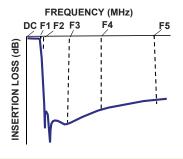
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Functional Schematic



Typical Frequency Response



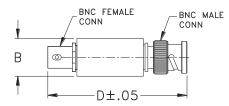
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Coaxial Connections

PORT - 1	BNC-Male
PORT - 2	BNC-Female

Outline Drawing



Outline Dimensions (inch)

A B C D E Wt.

-- 0.57 -- 2.59 -- grams -- 14.47 -- 65.79 -- 40

Note: Please refer to case style drawing for details

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