

Coaxial Low pass Filter

BLP-44+

50Ω DC to 44 MHz



Generic photo used for illustration purposes only
CASE STYLE: FF55

The Big Deal

- High rejection
- Sharp cut-off
- Connectorized package

Product Overview

BLP-44+ is a 50Ω Low pass filter in a connectorized package covering DC to 44 MHz. This filter build with high Q capacitors and wire welded inductors for with reliability. This filter offers sharp rejection and low insertion loss for use in test and measurement system applications.

Key Features

Feature	Advantages
High rejection	Attenuates unwanted spurious and harmonics
Sharp cut-off	This enables the filter rejects the near band interaction and provides the high selectivity.
Connectorized package	Easy to interface with other devices and well suited for test setups

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.
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Features

- High rejection
- Sharp cut-off
- Rugged shielded case

Applications

- Defense communications
- Receivers / Transmitters
- Harmonic rejection

Electrical Specifications at 25°C

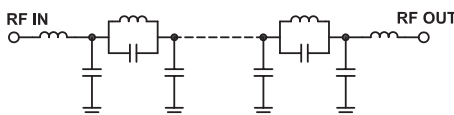
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Insertion Loss	DC-F1	DC - 44	—	0.6	1	dB
	Freq. Cut-Off	F2	48.5	—	3.0	—	dB
	VSWR	DC-F1	DC - 44	—	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	59 - 65.5	20	30	—	dB
		F4-F5	65.5 - 600	40	46	—	dB
	VSWR	F3-F5	59 - 600	—	20	—	:1

Maximum Ratings

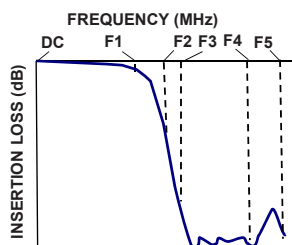
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W Max

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

Functional Schematic



Typical Frequency Response

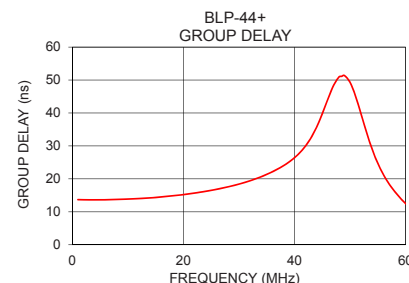
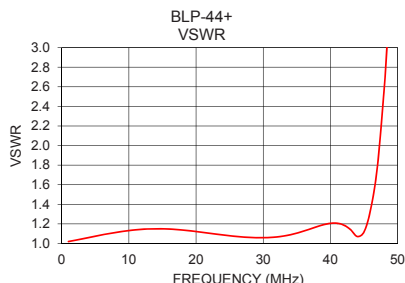
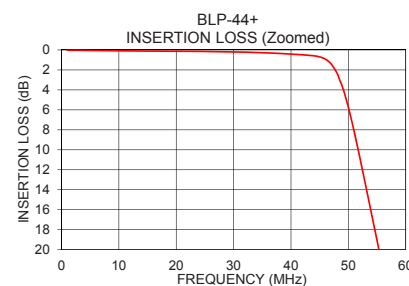


Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1.0	0.03	1.02	1	13.69
10.0	0.08	1.13	4	13.65
20.0	0.13	1.12	6	13.67
25.0	0.15	1.08	8	13.75
30.0	0.19	1.06	10	13.88
35.0	0.27	1.11	12	14.03
44.0	0.59	1.07	14	14.24
48.5	3.03	3.12	16	14.51
56.0	21.93	38.01	18	14.84
59.0	30.57	54.13	20	15.23
60.0	33.61	58.92	22	15.69
65.5	57.57	82.04	24	16.22
100.0	68.76	135.59	26	16.85
300.0	70.36	74.61	28	17.55
420.0	60.65	67.14	30	18.42
450.0	59.40	67.44	32	19.43
480.0	58.59	66.39	34	20.65
500.0	58.11	65.75	36	22.13
540.0	57.62	66.61	40	26.43
600.0	58.60	66.70	44	35.77

+RoHS Compliant

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



Notes

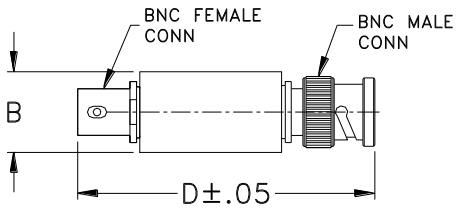
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Pad Connections

PORT - 1	BNC-MALE
PORT - 2	BNC-FEMALE

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}{\text{mm}}$)

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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