BLP-25+

 50Ω DC to 25 MHz



Generic photo used for illustration purposes only CASE STYLE: FF55

The Big Deal

- Low insertion loss, 0.5 dB typ.
- High rejection, 45 dB typ.
- Sharp cut-off
- Good VSWR, 1.3:1 typ. in passband
- Connectorized package

Product Overview

BLP-25+ is a 50Ω Low pass filter in a connectorized package covering DC to 25 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, 0.5 dB typ.	It enables the filter to be used in high performance applications.
High rejection, 45 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, 1.3:1 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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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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Low Pass Filter

50Ω DC to 25 MHz



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Max.

Unit

CASE STYLE: FF55

Connectors	Model
BNC	BI P-25+

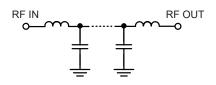
Features

- Low insertion loss, 0.5 dB typ.
- High rejection, 45 dB typ.
- Good VSWR, 1.3:1 typical in passband
- Sharp cut-off
- · Rugged shielded case
- · Connectorized package

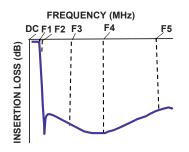
Applications

- Defense communications
- Transmitters / Receivers
- Harmonic rejection

Functional Schematic



Typical Frequency Response



+RoHS Compliant

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

Frequency (MHz) Тур. Parameter

Pass Band	Insertion Loss	DC-F1	DC - 25	_	0.5	1	dB
	Freq. Cut-Off	F2	28	_	3.0	_	dB
	VSWR	DC-F1	DC - 25	_	1.3	1.7	:1
Stop Band	Rejection Loss	F3-F4	36 - 47	20	25	_	dB
		F4-F5	47 - 1000	40	45	_	dB

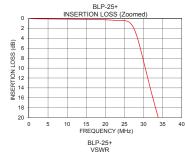
Electrical Specifications at 25°C

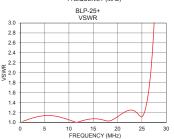
Maximum Ratings			
Operating Temperature	-40°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power Input	0.5 W max.		

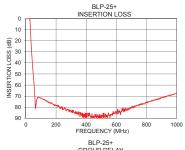
Permanent damage may occur if any of these limits are exceeded.

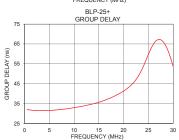
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
0.5	0.04	1.02	0.5	32.01
10.0	0.13	1.05	1.0	31.87
20.0	0.27	1.12	2.0	31.60
22.0	0.35	1.24	3.0	31.56
24.0	0.41	1.19	4.0	31.51
25.0	0.44	1.11	5.0	31.58
26.0	0.64	1.40	6.0	31.75
28.0	3.00	4.12	7.0	31.98
34.0	20.34	54.61	8.0	32.27
36.0	25.36	68.61	9.0	32.60
38.5	30.99	80.58	10.0	32.97
40.0	34.09	86.14	12.0	33.86
47.0	47.00	104.31	13.0	34.40
100.0	71.56	132.29	14.0	35.00
300.0	84.13	120.02	15.0	35.70
400.0	85.48	98.38	16.0	36.53
500.0	87.31	80.65	20.0	41.35
600.0	85.68	66.25	21.0	43.15
800.0	75.36	48.08	25.0	59.71
1000.0	67.32	38.08	28.0	66.09









Notes

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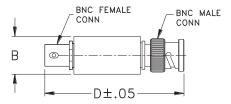
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	Ε	Wt.
	0.57		2.59		grams
	14 47		65 79		40

Note: Please refer to case style drawing for details



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