SLP-36+

 50Ω DC to 36 MHz



Generic photo used for illustration purposes only CASE STYLE: FF99

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

SLP-36+ is a 50Ω 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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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"); Puchasers 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

Low Pass Filter

 50Ω DC to 36 MHz





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CASE STYLE: FF99

Connectors	Model		
SMA	SI P-36+		

• Low insertion loss, 0.6 dB typ.

- High rejection, 46 dB typ.
- Good VSWR, 1.2:1 typical in passband
- Sharp cut-off

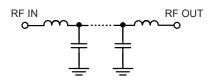
Features

- · Rugged shielded case
- · Connectorized package

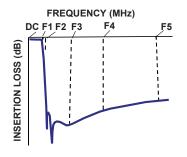
Applications

- 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

Electrical Specifications at 25°C

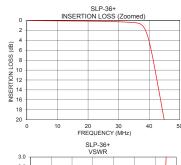
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 36	_	0.6	1	dB
Pass Band	Freq. Cut-Off	F2	40	_	3.0	_	dB
	VSWR	DC-F1	DC - 36	_	1.2	1.5	:1
Stop Band	Rejection Loss	F3-F4	50 - 57	20	30	_	dB
Stop Ballu	riejection Loss	F4-F5	57 - 560	40	46	_	dB

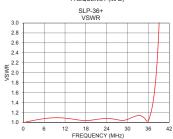
Maximum Ratings		
Operating Temperature	-40°C to 85°C	
Storage Temperature	-55°C to 100°C	
RF Power Input	0.5 W max.	

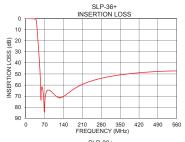
Permanent damage may occur if any of these limits are exceeded.

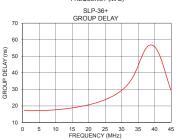
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
0.5	0.02	1.01	0.5	17.48
10.0	0.08	1.10	1.0	17.37
20.0	0.13	1.05	2.0	17.16
22.0	0.15	1.07	4.0	17.17
24.0	0.17	1.08	6.0	17.21
30.0	0.26	1.06	8.0	17.41
35.0	0.43	1.08	10.0	17.70
36.0	0.50	1.04	12.0	18.07
39.5	3.15	3.75	14.0	18.55
40.0	4.25	5.03	16.0	19.13
45.0	20.31	39.93	18.0	19.84
48.0	30.41	60.13	20.0	20.69
50.0	37.50	70.31	22.0	21.73
57.0	65.49	98.85	24.0	23.01
100.0	67.31	132.70	26.0	24.63
200.0	60.64	103.83	28.0	26.69
300.0	52.88	88.51	30.0	29.39
400.0	49.40	78.75	36.0	49.20
500.0	47.60	72.44	37.0	53.47
560.0	47.29	68.70	40.0	55.69
I			1	









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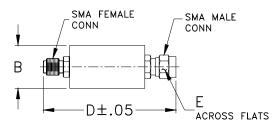
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SLP-36+ Low Pass Filter

Coaxial Connections

PORT - 1	SMA-Male	
PORT - 2	SMA-Female	

Outline Drawing



Outline Dimensions (inch)

В D Ε Wt. .70 1.98 .312 grams 17.78 50.29 7.92 42.0

Note: Please refer to case style drawing for details



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