SLP-25+

 50Ω DC to 25 MHz



Generic photo used for illustration purposes only CASE STYLE: FF99

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

SLP-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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CASE STYLE: FF99

Connectors	Model
SMA	SI P-25+

Electrical Specifications at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 25	_	0.5	1	dB
Pass Band	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
Stop Barid Rejection Loss	F4-F5	47 - 1000	40	45	_	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.

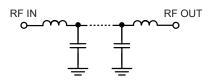
Features

- 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

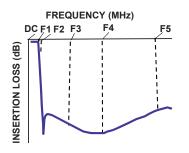
Applications

- Defense communications
- Transmitters / Receivers
- Harmonic rejection

Functional Schematic



Typical Frequency Response

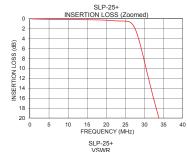


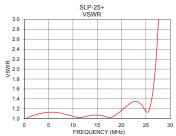
+RoHS Compliant

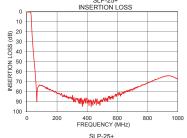
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

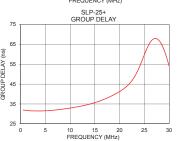
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
0.5	0.04	1.02	0.5	31.95
10.0	0.14	1.05	1.0	31.83
20.0	0.29	1.17	2.0	31.56
22.0	0.40	1.32	3.0	31.53
24.0	0.45	1.29	4.0	31.49
25.0	0.46	1.15	5.0	31.57
26.0	0.61	1.30	6.0	31.74
28.0	2.93	3.98	7.0	31.97
34.0	20.62	58.66	8.0	32.25
36.0	25.67	74.25	9.0	32.58
38.0	30.24	84.45	10.0	32.94
40.0	34.44	93.05	12.0	33.82
47.0	47.29	113.06	13.0	34.35
100.0	73.54	147.30	14.0	34.96
300.0	86.95	174.56	15.0	35.67
400.0	87.14	162.64	16.0	36.51
500.0	87.91	142.65	20.0	41.27
600.0	82.54	138.37	21.0	42.97
800.0	71.23	107.38	25.0	59.79
1000.0	67.50	80.03	28.0	66.79









Notes

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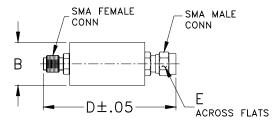
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

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

Note: Please refer to case style drawing for details



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