Low Pass Filter

ZX75LP-158-S+

 50Ω DC to 158 MHz

The Big Deal

- · High rejection
- Low Insertion loss, 1.2 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Product Overview

ZX75LP-158-S+ is a 50Ω low pass filter built in a connectorized package. Covering DC-158 MHz bandwidth, these units offer good matching within the passband and high rejection in stopband. This will find its applications in receivers and transmitters to suppress spurious emission and harmonics. It has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages
Low passband insertion loss	Suitable for high performance application
Fast roll-off	Provides very good adjacent band rejection
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups
Good VSWR	Provides good interface when used with other devices.

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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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Features

· High rejection

Applications Satellite

· Fast roll-off Good VSWR

· Low Insertion loss

· Connectorized package

· Wireless communications · Receivers / Transmitters

Low Pass Filter

 50Ω DC to 158 MHz

ZX75LP-158-S+



Connectors SMA-M\F

Model ZX75LP-158-S+

Flectrical Specifications at 25°C

Elocation opcomoditions at 20 0							
Pa	rameter	F# Frequency (MHz) Min.		Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-158	_	1.2	3.0	dB
Pass Band	Freq. Cut-Off	F2	170	_	3.0	_	dB
	VSWR	DC-F1	DC-158	_	1.2	1.6	:1
Stop Band	Rejection Loss	F3-F4	220-1000	20	30	_	dB
Stop band	VSWR	F3-F4	220-1000	_	33	_	-1

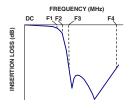
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5W max.			

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

Functional Schematic



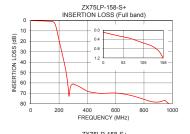
Typical Frequency Response

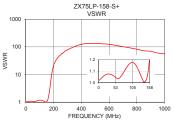


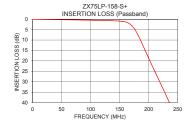
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

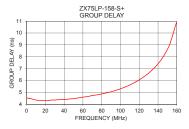
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.09	1.02	1	4.52
20	0.18	1.07	10	4.35
50	0.28	1.05	22	4.29
72	0.36	1.07	32	4.37
100	0.52	1.17	42	4.40
132	0.72	1.05	52	4.49
144	0.86	1.01	64	4.64
158	1.24	1.22	74	4.78
160	1.36	1.31	84	4.94
170	2.85	2.43	94	5.14
180	6.76	6.03	100	5.30
190	12.57	13.09	106	5.49
200	18.72	21.46	118	5.96
220	30.58	34.75	128	6.49
300	60.97	78.97	138	7.22
400	67.93	124.09	140	7.40
500	70.05	133.63	144	7.82
600	69.72	124.09	148	8.32
800	75.74	82.73	150	8.62
1000	80.20	56.04	158	10.46







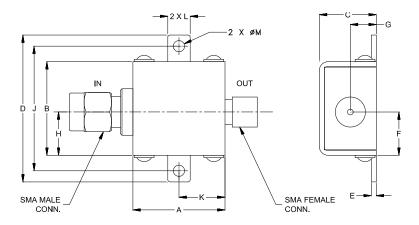


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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

	,	· 111111				
G	F	E	D	С	В	Α
.21	.349	.04	1.18	.46	.75	.74
5.33	8.86	1.02	29.97	11.68	19.05	18.80
Wt.		М		К		Н
VV L.		IVI	_	11	J	- 11
grams		.09	.18	.37	1.00	.349
24.4		2.29	4.57	9.40	25.40	8.86

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