Low Pass Filter

ZX75LP-158+

 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



CASE STYLE: KE1467

Product Overview

ZX75LP-158+ 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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Low Pass Filter

50Q DC to 158 MHz

ZX75LP-158+



CASE STYLE: KE1467

Connectors Model

SMA-M\F ZX75LP-158-S+

Features

- · High rejection
- · Low Insertion loss
- · Fast roll-off
- Good VSWR
- · Connectorized package

Applications

- Satellite
- · Wireless communications
- Receivers / Transmitters

Electrical Specifications at 25°C

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

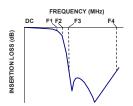
Functional Schematic



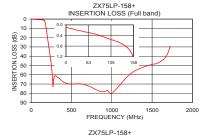
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.09	1.02	1	4.52
20	0.18	1.07	10	4.35
50	0.28	1.05	22	4.29
72	0.36	1.07	32	4.37
100	0.52	1.17	42	4.40
132	0.72	1.05	52	4.49
144	0.86	1.01	64	4.64
158	1.24	1.22	74	4.78
160	1.36	1.31	84	4.94
170	2.85	2.43	94	5.14
180	6.76	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

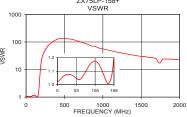
Typical Performance Data at 25°C

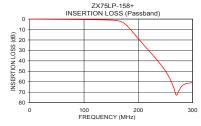
Typical Frequency Response

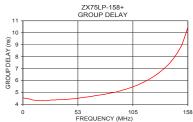


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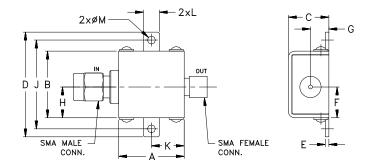
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

G	F	Е	D	С	В	Α
.21	.349	.04	1.18	.46	.75	0.74
5.33	8.86	1.02	29.97	11.68	19.05	18.80
wt		M	L	K	J	Н
grams		.09	.18	.37	1.00	.349
24.4		2.29	4.57	9.40	25.40	8.86

Notes
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