Coaxial

Low Pass Filter

ZX75LP-900+

50Ω DC to 900 MHz



CASE STYLE: KE1467

The Big Deal

- High rejection
- Low Insertion loss, 0.9 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package

Product Overview

ZX75LP-900+ is a 50Ω low pass filter built in a connectorized package. Covering DC-900 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.

Notes
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CASE STYLE: KE1467

Connectors	Model
SMA-M\F	ZX75LP-900-S+

Features

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

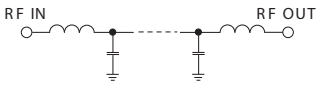
Applications

- Satellite
- Wireless communications
- Receivers / Transmitters

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-900	—	0.9	2.0	dB
	Freq. Cut-Off	F2	1000	—	3.0	—	dB
	VSWR	DC-F1	DC-900	—	1.3	1.8	:1
Stop Band	Rejection Loss	F3-F4	1300-2900	20	30	—	dB
	VSWR	F3-F4	1300-2900	—	16	—	:1

Functional Schematic



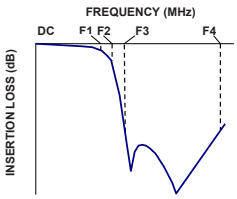
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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

Typical Performance Data at 25°C

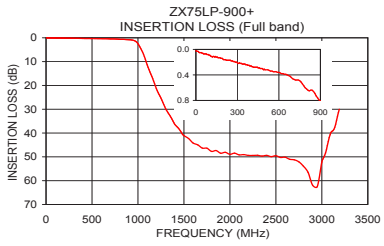
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.02	1.01	1	1.05
20	0.04	1.01	10	0.96
80	0.08	1.01	25	0.86
200	0.16	1.03	60	0.86
490	0.32	1.15	140	0.86
810	0.64	1.26	220	0.87
900	0.81	1.24	285	0.88
930	0.91	1.13	350	0.91
950	1.06	1.22	425	0.94
980	1.62	1.73	500	0.99
1000	2.48	2.40	550	1.03
1200	21.30	82.73	580	1.06
1300	29.68	193.02	600	1.08
1400	36.32	157.93	640	1.12
1500	41.09	102.19	700	1.20
1600	44.20	69.49	750	1.31
1800	47.72	39.49	800	1.37
2000	48.94	27.16	850	1.58
2500	49.52	17.39	880	1.67
2900	61.93	15.81	900	1.77

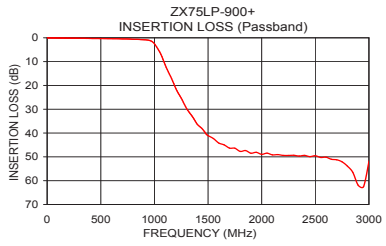
Typical Frequency Response

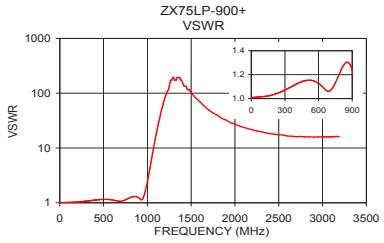


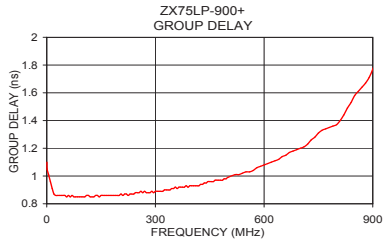
+RoHS Compliant

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









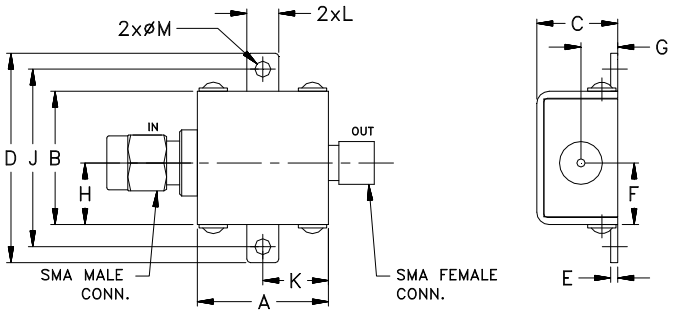
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Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
0.74	.75	.46	1.18	.04	.349	.21
18.80	19.05	11.68	29.97	1.02	8.86	5.33

H	J	K	L	M	wt
.349	1.00	.37	.18	.09	grams
8.86	25.40	9.40	4.57	2.29	24.4

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