Coaxial .ow Pass Filter

50Ω DC to 83 MHz

The Big Deal

- High rejection
- Low Insertion loss, 1.4 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package

Product Overview

ZX75LP-83-S+ is a 50Ω low pass filter built in a connectorized package. Covering DC-83 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.



ZX75LP-83-S+

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Coaxial **Low Pass Filter**

50Ω DC to 83 MHz

Features

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

Applications

Satellite

RFIN

- Wireless communications
- Receivers / Transmitters

CASE STYLE: KE1467 Model Connectors SMA-M\F ZX75LP-83-S+

Electrical Specifications at 25°C

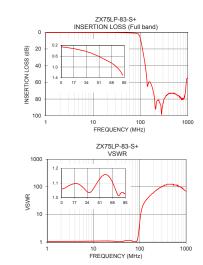
	Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Γ		Insertion Loss	DC-F1	DC-83	_	1.4	2.0	dB
	Pass Band	Freq. Cut-Off	F2	93	—	3.0	—	dB
		VSWR	DC-F1	DC-83	—	1.2	1.5	:1
Γ	Stop Band	Rejection Loss	F3-F4	119-850	20	30	—	dB
	Stop Band	VSWR	F3-F4	119-850	—	22	—	:1

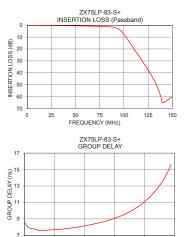
C to 85°C
C to 100°C
W max.

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 (nsec)
1	0.26	1.06	1	8.29
35	0.44	1.04	6	7.77
70	0.90	1.08	12	7.63
83	1.30	1.03	18	7.70
93	2.76	1.79	24	7.82
98	5.78	3.80	30	8.01
104	12.10	8.99	36	8.23
113	22.88	17.75	42	8.51
119	30.06	22.29	46	8.73
140	64.89	34.07	53	9.22
160	59.76	44.55	59	9.80
210	92.20	66.82	62	10.16
245	80.88	82.73	65	10.58
280	98.35	96.51	68	11.08
320	79.47	108.58	71	11.67
440	73.41	124.09	74	12.36
650	76.54	115.81	75	12.62
750	79.91	96.51	77	13.20
815	80.00	91.43	80	14.24
850	76.88	86.86	83	15.63





17

34

FREQUENCY (MHz)

68

85

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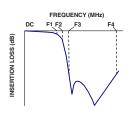
ZX75LP-83-S+

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

Typical Frequency Response

Functional Schematic

RF OUT



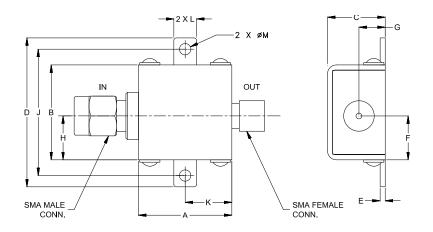


ZX75LP-83-S+

Coaxial Connections

••••••••	
INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	Е	F	G
.74	.75	.46	1.18	.04	.349	.21
18.80	19.05	11.68	29.97	1.02	8.86	5.33
н	J	К	L	М		Wt.
H .349	ل 1.00	К .37	L .18	М .09		Wt. grams

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