Coaxial **Low Pass Filter**

50Ω DC to 288 MHz

ZX75LP-288-S+

The Big Deal

- High rejection
- Low Insertion loss, 1.1 dB typical in passband
- Fast roll-off
- Good VSWR
- Connectorized package



Generic photo used for illustration purposes only CASE STYLE: KE1467

Product Overview

ZX75LP-288-S+ is a 50Ω low pass filter built in a connectorized package. Covering DC-288 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.

A Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document. 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. G. The parts covered by this specification document are subject to Mini-Circuits trandard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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Coaxial **Low Pass Filter**

50Ω DC to 288 MHz

Features

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

Applications

- Satellite
- Wireless communications
- Receivers / Transmitters



Generic photo used for illustration purposes only CASE STYLE: KE1467 Connectors Model SMA-M\F ZX75LP-288-S+

Electrical	Specifications	at 25°C
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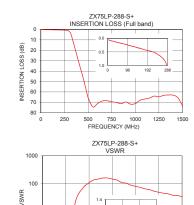
	Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Г		Insertion Loss	DC-F1	DC-288	—	1.1	2.0	dB
F	Pass Band	Freq. Cut-Off	F2	312	_	3.0	_	dB
		VSWR	DC-F1	DC-288	—	1.3	1.7	:1
	Stop Band	Rejection Loss	F3-F4	400-1500	20	30	_	dB
Ľ	этор вани	VSWR	F3-F4	400-1500	—	32	—	:1

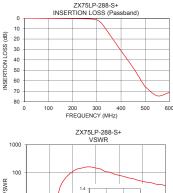
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5W max.			

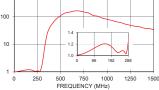
Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.05	1.01	1	2.14
20	0.10	1.02	8	2.36
74	0.20	1.09	22	2.31
168	0.40	1.20	40	2.30
272	0.80	1.04	60	2.34
278	0.88	1.05	82	2.37
288	1.09	1.23	100	2.41
298	1.57	1.65	124	2.51
308	2.66	2.53	146	2.63
312	3.33	3.11	166	2.74
320	5.11	4.80	184	2.90
340	11.26	13.29	194	3.02
380	24.68	37.77	206	3.14
400	31.23	49.64	224	3.43
450	47.55	78.97	238	3.66
500	65.66	108.58	248	3.91
550	74.39	133.63	258	4.21
1000	71.19	78.97	268	4.57
1250	64.69	48.26	278	5.10
1500	73.36	33.42	288	5.82







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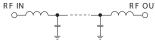
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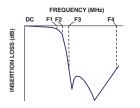
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Functional Schematic RF OUT



Typical Frequency Response





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500 750 100 FREQUENCY (MHz) 1000 1250 1500

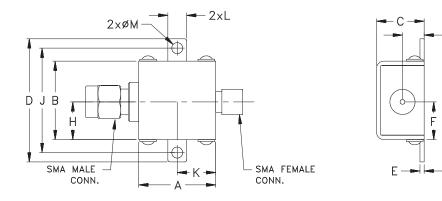
192

ZX75LP-288-S+

Coaxial Connections

INPUT	SMA-Male
OUTPUT	SMA-Female

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G
.74	.75	.46	1.18	.04	.362	.21
18.80	19.05	11.68	29.97	1.02	9.19	5.33
H	J	K	L	M		Wt.
.362	1.00	.37	.18	.11		grams
9.19	25.40	9.40	4.57	2.79		24.4

Note: Please refer to case style drawing for details

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