ow Pass Filter

ZNFLP-2100+

 50Ω DC to 1800 MHz

The Big Deal

- High stopband rejection
- Low insertion loss in the passband, 0.6 dB typical.
- Good VSWR, 1.2:1 typical in passband



CASE STYLE: UU1432

Product Overview

ZNFLP-2100+ is a 50Ω low pass filter built into a rugged connectorized package (size: 2.25" x 2.30" x 0.63"). This model has low passband Insertion loss, high rejection with well matched input and output ports. In addition it has repeatable performance across production lots.

Key Features

Feature	Advantages		
Low passband insertion loss	It provides minimal attenuation to the signal.		
High rejection	This enables diplexer to attenuate harmonics, and spurious signals.		
Good VSWR, 1.2:1 typical in pass band	The model has good matching when used with other devices.		

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Features

· High rejection

Low Pass Filter

50 Ω DC to 1800 MHz

· Good VSWR,1.2:1 typical in passband

ZNFLP-2100+



CASE STYLE: UU1432

Connectors Model SMA-FEMALE ZNFLP-2100-S+

Electrical Specifications at 25°C

Pa	Parameter F# Frequency (MHz)		Parameter F# Frequency (MHz) Mi		Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-1800	_	0.6	1.0	dB	
Pass Band	Freq. Cut-Off	F2	2100	_	3.5	_	dB	
	VSWR	DC-F1	DC-1800	_	1.2	1.4	:1	
Stop Band	Rejection Loss	F3-F4	2600-4500	20	31	_	dB	
Stop Band	VSWR	F3-F4	2600-4500	_	17	_	:1	

Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	5W max. at 25°C

^{*} Derate linearly to 5W at 100°C ambient.

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

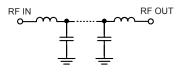
Applications

- Harmonic rejection
- Transmitters / receivers

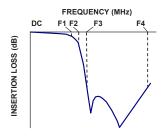
· Connectorized package

Lab use

Functional Schematic



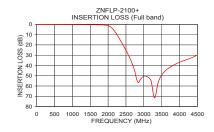
Typical Frequency Response

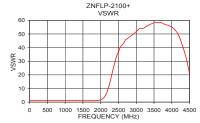


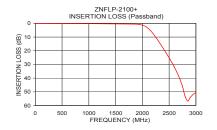
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

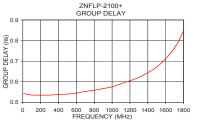
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10	0.01	1.01	10	0.54
200	0.08	1.06	50	0.54
500	0.13	1.09	100	0.54
1000	0.22	1.10	300	0.53
1800	0.49	1.01	500	0.54
2000	1.11	1.74	600	0.54
2050	1.81	2.41	700	0.55
2100	3.02	3.63	800	0.56
2200	7.11	8.99	900	0.57
2350	15.47	24.47	1000	0.57
2600	31.43	41.63	1100	0.59
2850	60.91	47.53	1200	0.60
3000	51.47	48.77	1300	0.62
3300	58.84	52.06	1400	0.64
3500	50.95	54.52	1500	0.67
3700	42.95	53.82	1600	0.71
4000	36.82	54.75	1650	0.74
4200	34.01	55.57	1700	0.76
4400	31.19	58.19	1750	0.80
4500	29.30	57.63	1800	0.85









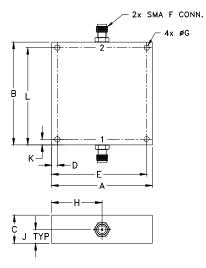
Notes

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Coaxial Connections

INPUT	1 (SMA Female)
OUTPUT	2 (SMA Female)

Outline Drawing



Outline Dimensions (inch)

F	Е	D	С	В	Α
-	2.125	0.125	0.63	2.3	2.25
-	53.98	3.18	16	58.42	57.15
wt.	L	K	J	Н	G
grams	2.175	0.125	0.31	1.13	0.125
93	55.25	3.18	7.87	28.70	3.18

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