Low Pass Filter

NLP-500+

 50Ω DC to 500 MHz

The Big Deal

- Low insertion loss (0.5 dB typical)
- Wide stop band (up to 10 GHz)
- Rugged connectorized package



CASE STYLE: FF967

Product Overview

The NLP-500+ is a connectorized low pass filter, built in N-unibody. The NLP-500+ offers a very low passband insertion loss 0.5 dB typical and a wide stop band rejection.

Key Features

Feature	Advantages	
Designed for any environment	The NLP-500+ is equipped with a rugged shielded case and with a wide operating temperature range (-55°C to 100°C). Suitable for many environments and applications the NLP-500+ offers excellent performance and value.	
Wide rejection, stop band is extending beyond typical theoretical limits.	This enables the filter to attenuate spurious signals and reject harmonics for broad band of frequency.	
Minimal passband insertion loss	Provides low signal loss.	
More than 40dB rejection up to 4500 MHz and 40 dB typical up to 10GHz	This enables the filter to attenuate spurious signals and reject harmonics over a broad frequency band.	



For detailed performance specs & shopping online see web site

Low Pass Filter

50 Ω DC to 500 MHz

NLP-500+



Features

- Excellent stop band rejection, 40dB typical up to 10GHz
- Rugged connectorized package

CASE STYLE: FF967

Input	Output	Connectors	Model	Price	Qty
Male	Female	N-type	NLP-500+	\$32.95ea.	(10)

Electrical Specifications at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC - F1	DC - 500	_	0.5	1.0	dB
Pass Band	Freq. Cut-Off	F2	630	_	3.0	_	dB
	VSWR	DC - F1	DC - 500	_	1.2	1.75	:1
		F3 - F4	1000 - 1400	20	_	_	dB
Stop Band	Rejection Loss	F4 - F5	1400 - 4500	40	51	_	dB
Stop Band		F5 - F6	4500 - 10000	_	40	_	dB
	VSWR	F3 - F6	4500 - 10000	_	15	_	:1

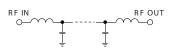
Maximum Ratings				
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	2W max.			

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

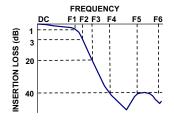
Applications

- · Harmonic rejection
- Test equipment
- Lab use

Functional Schematic



Typical Frequency Response

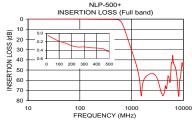


+ RoHS compliant in accordance with EU Directive (2002/95/EC)

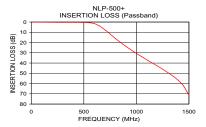
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

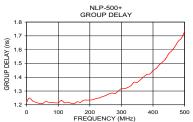
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10	0.06	37.85	10.0	1.25
50	0.12	27.47	50.0	1.21
150	0.23	18.65	100.0	1.21
500	0.46	20.07	120.0	1.21
550	0.74	13.19	150.0	1.21
600	1.66	6.95	180.0	1.23
630	3.11	4.60	190.0	1.23
700	7.84	1.28	200.0	1.23
800	16.35	0.40	220.0	1.25
1000	30.89	0.23	250.0	1.27
1200	43.25	0.21	270.0	1.29
1400	57.33	0.20	300.0	1.32
3000	56.59	0.18	320.0	1.33
4500	72.30	0.41	340.0	1.36
5000	66.23	0.58	350.0	1.36
6220	30.91	1.14	370.0	1.40
7000	45.51	0.75	380.0	1.42
8000	67.21	0.71	400.0	1.45
9000	51.59	1.91	450.0	1.57
10000	40.89	1.57	500.0	1.73









For detailed performance spec & shopping online see web site



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com

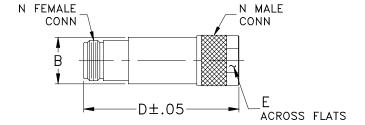
REV. OR

Low Pass Filter NLP-500+

Coaxial Connections

INPUT	Male
OUTPUT	Female

Outline Drawing



Outline Dimensions (inch)

wt	Ε	D	В
grams	.718	2.11	.68
72.5	18.24	53.59	17.27



For detailed performance specs & shopping online see web site