Coaxial

Low Pass Filter

NLP-100+

50Ω DC to 98 MHz

Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input	0.5 W max.

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

Features

- Rugged Shielded Case
- Other NLP Models Available with Wide Selection of Cut-Off Frequencies

Applications

- Lab Use
- Test Equipment
- Video Equipment

Generic photo used for illustration purposes only

CASE STYLE: FF57

Connectors	Model
N-Type	NLP-100+

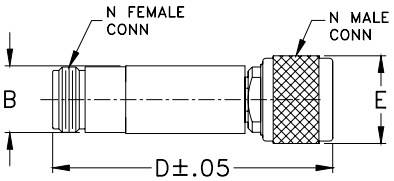
+RoHS Compliant

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

Low Pass Filter Electrical Specifications

PASSBAND (MHz) (loss < 1 dB)	fco (MHz) Nom. (loss 3 dB)	STOPBAND (MHz) (loss > 20 dB)	STOPBAND (MHz) (loss > 40 dB)	VSWR (:1) Passband Typ.	VSWR (:1) Stopband Typ.
DC-98	108	146-189	189-400	1.7	18

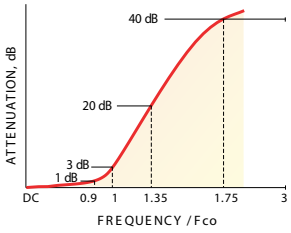
Outline Drawing



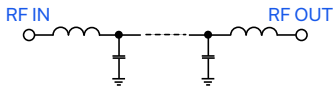
Outline Dimensions (inch/mm)

B	D	E	wt
.70	2.90	.82	grams
17.78	73.66	20.83	90.0

typical frequency response



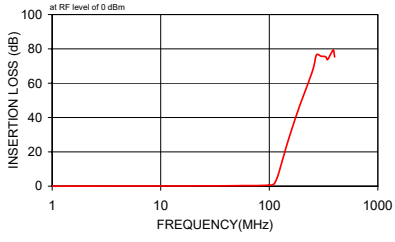
electrical schematic



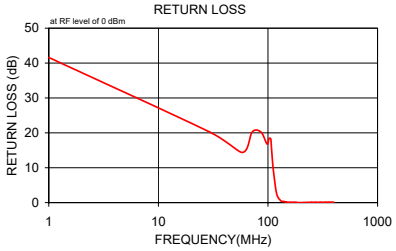
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) x̄	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.00	0.02	0.1	41.6	1.00	7.802
29.50	0.16	0.1	20.2	15.00	7.718
58.00	0.34	0.1	14.4	29.50	7.812
72.00	0.31	0.1	20.3	43.50	7.901
86.50	0.41	0.1	20.2	58.00	8.226
98.00	0.58	0.1	16.8	72.00	9.283
102.00	0.62	0.1	18.4	86.50	10.402
106.00	0.75	0.1	18.3	98.00	12.091
108.00	0.93	0.2	15.0	102.00	13.505
112.00	1.72	0.5	9.3	104.00	14.551
120.00	5.98	1.3	2.5	106.00	15.904
130.01	13.62	1.3	0.6	108.00	16.952
138.02	19.37	1.2	0.3	112.00	18.647
140.02	20.73	1.2	0.3	115.00	18.923
146.02	24.55	1.2	0.2	120.00	16.027
150.03	26.95	1.1	0.1	125.00	11.256
160.03	32.54	1.2	0.1	130.00	8.381
170.04	37.64	1.2	0.1	138.00	6.335
180.04	42.35	1.2	0.1	140.00	5.440
185.04	44.43	1.3	0.0	146.00	5.302
189.05	46.24	1.4	0.0	150.00	4.068
250.07	67.20	3.6	0.1	155.00	3.545
271.58	76.41	8.4	0.1	160.00	3.249
300.08	75.73	6.4	0.1	165.00	3.192
330.08	75.45	3.9	0.1	170.00	1.495
343.07	73.72	2.6	0.1	180.00	9.308
360.08	75.87	4.3	0.1	185.00	2.440
371.58	77.51	9.8	0.1	189.00	1.634
390.08	79.32	7.8	0.1	250.00	1.412
400.08	75.26	2.4	0.1	260.00	1.228

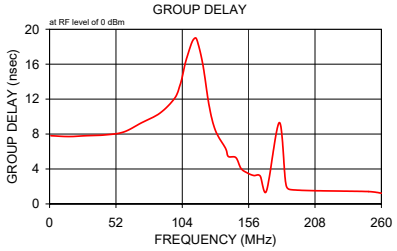
INSERTION LOSS



RETURN LOSS



GROUP DELAY



Notes

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.
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