

Low Pass Filter

NLP-21.4+

50Ω DC to 22 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°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.

Features

- rugged shielded case
- other NLP models available with wide selection of cut-off frequencies

Applications

- lab use
- test equipment
- video equipment



CASE STYLE: FF57

Connectors	Model	Price	Qty.
N-Type	NLP-21.4+	\$35.95 ea.	(1-9)

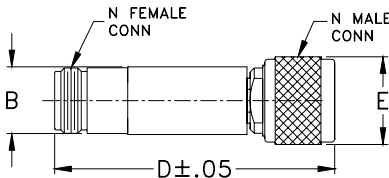
+RoHS Compliant

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

Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)	VSWR (:1)
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB) (loss > 40 dB)	Passband Typ. Stopband Typ.
DC-22	24.5	32-41 41-200	1.7 18

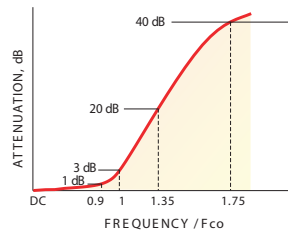
Outline Drawing



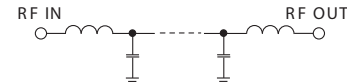
Outline Dimensions (inch/mm)

B	D	E	wt
.67	2.90	.82	grams
17.02	73.66	20.83	90.0

typical frequency response



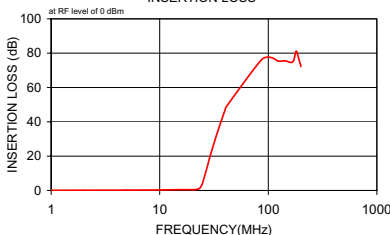
electrical schematic



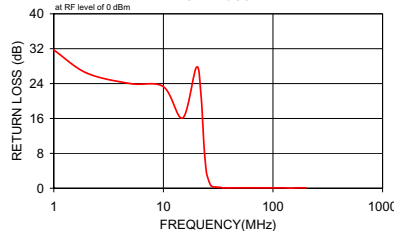
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
1.00	0.10	0.1	1.00	36.16
2.00	0.12	0.0	2.00	36.11
5.00	0.21	0.1	5.00	36.80
10.00	0.29	0.1	10.00	38.69
15.00	0.45	0.1	15.00	42.25
20.00	0.45	0.1	20.00	55.73
22.00	0.60	0.1	22.00	69.40
23.50	1.46	0.4	23.00	81.70
24.50	3.45	1.0	23.50	88.29
25.00	4.95	1.2	24.00	92.34
27.00	12.37	1.5	24.50	91.46
29.00	19.53	1.4	25.00	85.66
30.00	22.77	1.4	26.00	66.76
31.00	25.77	1.3	27.00	48.88
32.00	28.62	1.3	28.00	36.30
33.00	31.31	1.3	29.00	28.75
35.00	36.30	1.2	30.00	24.49
38.00	42.86	1.3	31.00	19.40
39.00	45.08	1.1	32.00	17.88
40.00	46.77	1.0	33.00	13.73
41.00	48.73	1.0	34.00	13.70
86.50	76.16	2.0	35.00	14.63
105.00	77.54	4.3	36.00	8.86
124.00	75.42	0.6	38.00	7.64
143.00	75.51	1.8	39.00	7.39
162.00	74.57	3.5	40.00	9.97
171.50	75.79	4.4	41.00	2.67
181.00	81.15	8.2	86.50	2.56
190.50	76.97	3.2	96.00	2.44
200.00	72.23	2.4	105.00	2.28

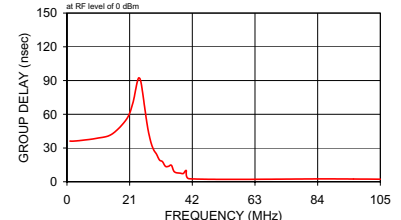
INSERTION LOSS



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.
 C. The parts covered by this specification document are subject to Mini-Circuit's standard 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

