

Low Pass Filter

NLP-50

50Ω DC to 48 MHz

Maximum Ratings

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

Features

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



Applications

- lab use
- test equipment
- video equipment

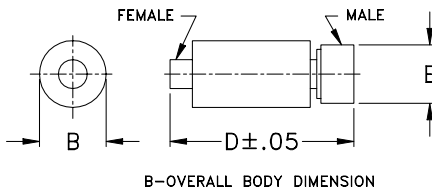
CASE STYLE: FF57

Connectors	Model	Price	Qty.
N-Type	NLP-50	\$35.95 ea.	(1-9)

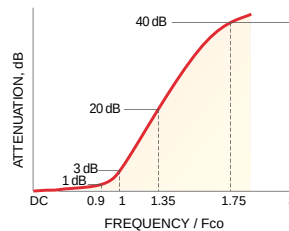
Low Pass Filter Electrical Specifications

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-48	55	70-90 90-200	1.7 18

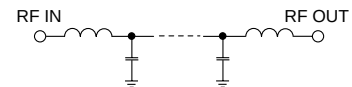
Outline Drawing



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	0.05 0.0	41.2	1.00	16.62
15.50	0.23 0.1	22.7	8.50	16.73
23.00	0.37 0.1	15.7	15.50	17.87
30.50	0.43 0.1	15.4	23.00	17.45
38.00	0.40 0.1	25.1	30.50	18.79
45.00	0.65 0.1	14.8	38.00	21.89
48.00	0.70 0.1	17.1	45.00	25.87
52.00	1.46 0.2	9.9	48.00	30.56
55.00	4.65 0.3	3.0	49.50	33.92
57.00	7.96 0.4	1.5	52.00	42.09
61.00	14.84 0.5	0.5	53.50	42.83
65.00	20.96 6.0	0.3	55.00	38.77
67.00	23.73 0.6	0.2	57.00	29.20
69.00	26.33 0.7	0.2	59.00	22.03
70.00	27.59 0.7	0.2	61.00	16.66
72.50	30.55 0.8	0.2	63.00	14.04
80.00	38.67 1.2	0.1	65.00	11.17
82.50	41.07 1.4	0.1	67.00	10.62
85.00	43.54 1.6	0.1	69.00	8.06
87.50	45.78 1.8	0.1	70.00	7.57
90.00	47.97 2.2	0.1	72.50	7.70
100.00	56.91 4.1	0.1	75.00	7.14
133.50	68.38 5.2	0.1	80.00	6.57
150.00	67.23 4.2	0.1	81.00	4.93
163.00	68.62 4.6	0.1	82.50	3.61
170.50	69.35 3.3	0.1	85.00	0.84
175.00	69.36 5.8	0.1	87.50	1.23
185.50	77.07 8.8	0.1	90.00	0.73
192.50	69.51 5.2	0.1	100.00	0.70
200.00	71.27 9.7	0.1	125.00	0.69

