

Coaxial

Low Pass Filter

50Ω DC to 60 MHz

NLP-70+

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



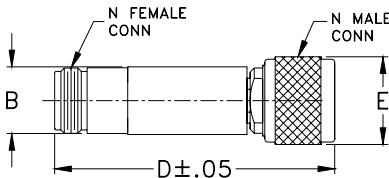
CASE STYLE: FF57

Connectors	Model
N-Type	NLP-70+

+RoHS Compliant

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

Outline Drawing



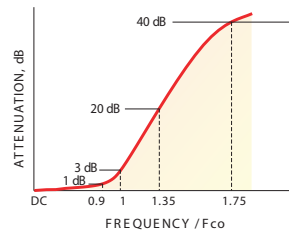
Outline Dimensions (inch/mm)

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

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-60	67	90-117	117-300	1.7	18

typical frequency response

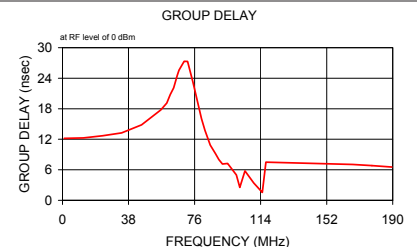
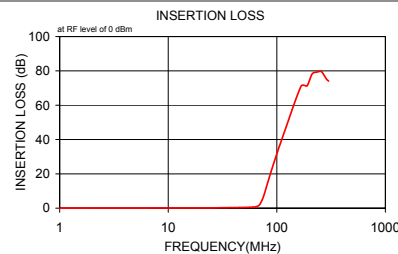
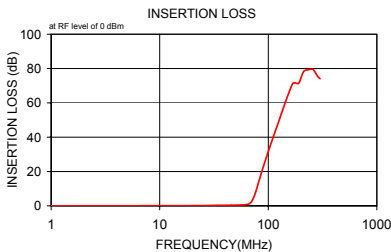


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$ σ			
1.00	0.02 0.1	41.6	1.00	12.18
12.00	0.09 0.1	35.7	12.00	12.27
23.00	0.14 0.1	25.9	23.00	12.70
34.00	0.30 0.1	17.1	34.00	13.24
45.50	0.38 0.1	15.3	45.50	14.84
56.50	0.48 0.1	18.3	56.50	17.75
60.00	0.57 0.1	17.8	60.00	19.13
64.00	0.81 0.1	13.9	62.00	20.78
67.00	1.27 0.2	9.8	64.00	22.11
70.00	2.40 0.5	5.9	66.00	24.56
75.00	6.44 0.7	1.9	67.00	25.58
82.00	14.32 0.6	0.3	70.00	27.33
85.00	17.61 0.6	0.1	72.00	27.29
88.00	20.73 0.5	0.1	75.00	23.25
90.00	22.72 0.5	0.1	80.00	16.05
92.00	24.63 0.4	0.1	82.00	13.76
100.00	31.63 0.3	0.2	85.00	10.85
105.00	35.63 0.3	0.2	88.00	9.20
110.00	39.22 0.3	0.3	90.00	8.00
115.00	42.79 0.3	0.3	92.00	7.14
117.00	44.09 0.3	0.3	95.00	7.25
167.00	71.03 2.8	0.3	100.00	4.98
189.50	71.25 4.9	0.3	102.00	2.55
211.50	78.21 8.2	0.2	105.00	5.78
233.50	79.29 6.9	0.2	110.00	3.41
255.50	79.68 7.6	0.2	115.00	1.56
267.00	78.34 9.9	0.2	117.00	7.50
278.00	76.60 3.1	0.1	167.00	7.04
289.00	75.01 2.8	0.1	178.00	6.83
300.00	74.09 4.1	0.1	189.50	6.54



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



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