Coaxial

Low Pass Filter

NBLP-5-1+

50Ω DC to 3 MHz

CASE STYLE: FF57

Connectors	Model	Price	Qty.
N Male/Female	NBLP-5-1+	$76.95 ea.	(10)
		$69.95 ea.	(25)

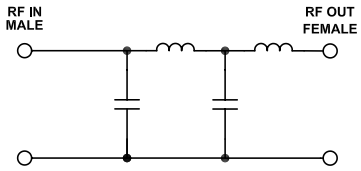
Features

- Flat group delay for low pulse distortion
- Rugged shielded case
- Other NBLP models available with wide selection of cut-off frequencies

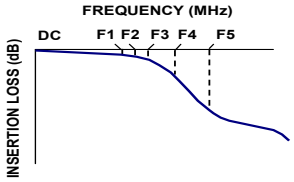
Applications

- Linear modulation techniques
- Voice transmission applications
- Digital communications

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.

Electrical Specifications at 25°C

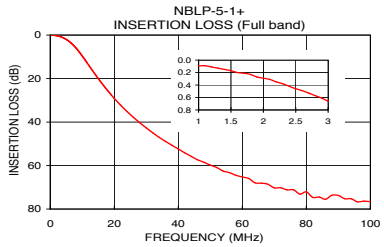
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F2	DC-3	—	0.7	1.6	dB
	Freq. Cut-Off	F4	6	—	3	—	dB
	VSWR	DC-F1	DC-1.2	—	1.3	1.5	:1
	VSWR	DC-F3	DC-3.6	—	2.5	3.01	:1
Stop Band	Rejection Loss	F5	12	10	13	—	dB
	VSWR	F5	12	—	28	—	:1
Group Delay Variation		DC-F4	DC-6	—	2	—	ns

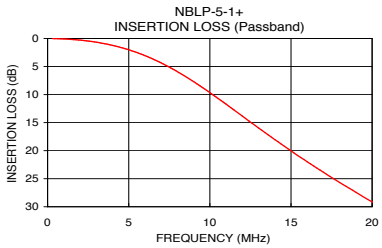
Maximum Ratings	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

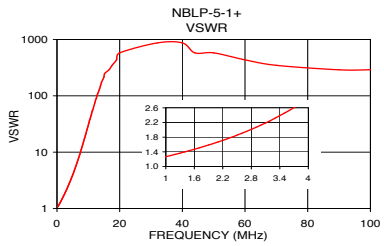
Permanent damage may occur if any of these limits are exceeded.

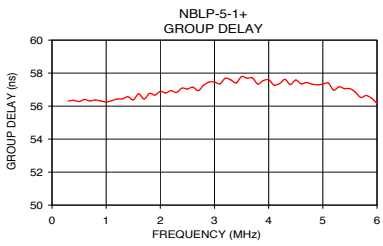
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1.0	0.09	1.27	1.00	56.25
1.2	0.11	1.33	1.20	56.43
1.5	0.17	1.43	1.40	56.57
2.0	0.29	1.63	1.60	56.74
2.2	0.35	1.71	1.80	56.77
2.5	0.46	1.86	2.00	56.89
3.0	0.66	2.13	2.20	56.94
3.4	0.87	2.39	2.40	57.09
3.6	0.98	2.53	2.60	57.15
3.8	1.10	2.69	2.80	57.27
4.0	1.23	2.85	3.00	57.46
5.0	2.02	3.93	3.20	57.69
6.0	3.06	5.58	3.50	57.79
9.0	7.69	19.32	4.00	57.59
12.0	13.83	72.39	4.30	57.62
15.0	20.03	217.15	4.60	57.35
20.0	29.14	579.06	5.00	57.33
50.0	59.80	579.06	5.30	57.17
70.0	70.24	347.44	5.40	57.06
100.0	76.63	289.53	6.00	56.19









For detailed performance specs & shopping online see web site

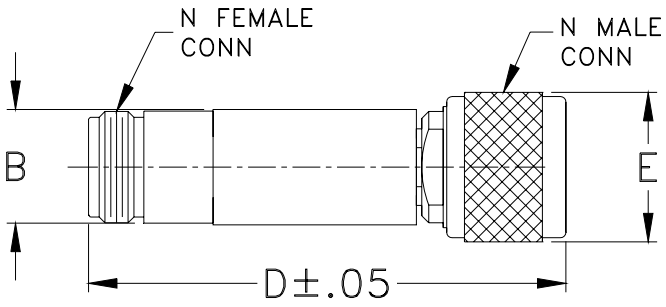
Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. **2.** Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. **3.** The parts covered by this specification sheet are subject to Mini-Circuits 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

REV. OR
M131648
NBLP-5-1+
EDU1592
URJ
110619

Coaxial Connections

INPUT	N-Male
OUTPUT	N-Female

Outline Drawing



Outline Dimensions (inch / mm)

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

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