

Low Pass Filter

NLP-2.5+

50Ω DC to 2.5 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
N-Type	NLP-2.5+

+RoHS Compliant

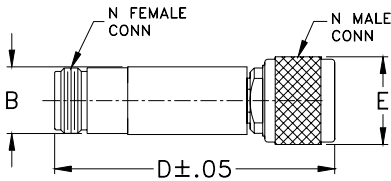
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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-2.5	2.75	3.8-5.0 5.0-200	1.7 18

1 dB compression at +13 dBm input power

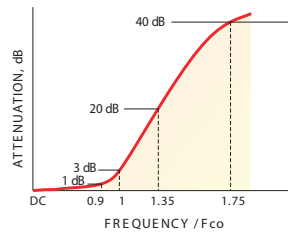
Outline Drawing



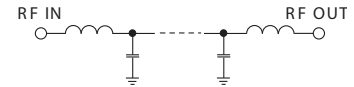
Outline Dimensions (inch/mm)

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

typical frequency response

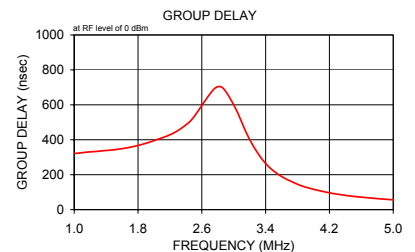
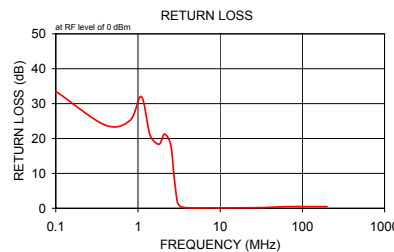


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$ σ			
0.10	0.06 0.00	33.53	1.00	321.99
0.40	0.08 0.01	23.85	1.06	323.09
0.80	0.10 0.01	25.18	1.12	327.26
1.10	0.12 0.00	32.02	1.18	330.19
1.40	0.17 0.01	21.06	1.25	332.28
1.80	0.24 0.01	18.34	1.32	334.96
2.10	0.28 0.04	21.26	1.40	338.56
2.50	0.45 0.07	18.25	1.48	341.36
2.75	1.34 0.45	9.00	1.56	346.34
3.00	5.99 1.21	2.08	1.65	352.96
3.20	11.74 1.32	0.71	1.74	360.97
3.30	14.61 1.31	0.48	1.84	372.10
3.50	19.96 1.23	0.29	1.94	385.34
3.60	22.44 1.20	0.25	2.05	402.77
3.80	27.02 1.14	0.19	2.17	422.48
4.00	31.16 1.09	0.17	2.29	449.68
4.20	34.94 1.06	0.15	2.42	492.19
4.40	38.42 1.03	0.14	2.50	530.37
4.60	41.65 1.00	0.12	2.75	689.14
4.80	44.65 0.98	0.12	2.86	697.89
5.00	47.46 0.98	0.11	3.02	582.03
5.20	50.11 0.99	0.10	3.19	410.17
29.60	89.73 3.84	0.19	3.37	280.46
53.90	87.32 1.38	0.43	3.56	201.19
78.30	89.67 4.26	0.48	3.80	145.71
102.60	86.70 3.08	0.49	3.98	119.20
127.00	88.19 4.27	0.49	4.20	96.41
151.30	90.79 3.34	0.48	4.44	79.41
175.70	90.31 4.10	0.48	4.74	65.38
200.00	93.47 9.35	0.47	5.01	55.83



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

