

Coaxial Low Pass Filter

NLP-600+

50Ω DC to 580 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-600+

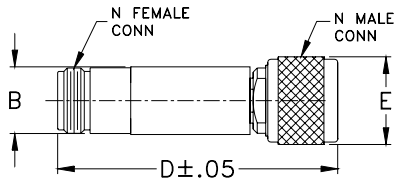
+RoHS Compliant

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 > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-580	640	840-1120	1120-2000	1.7	18

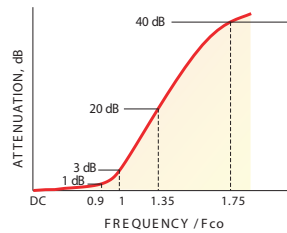
Outline Drawing



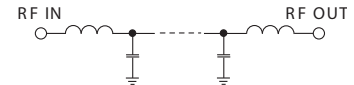
Outline Dimensions (inch/mm)

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

typical frequency response



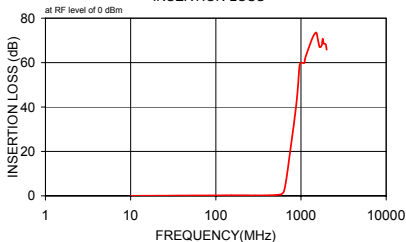
electrical schematic



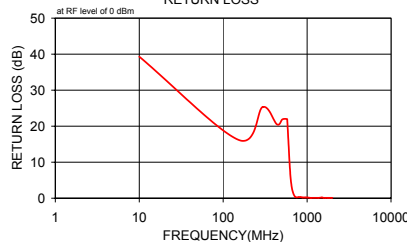
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	\bar{x}	σ			
10.00	0.01	0.1	39.3	10.00	1.41
152.50	0.22	0.2	16.2	80.00	1.44
295.00	0.20	0.1	25.3	152.50	1.38
437.50	0.28	0.1	20.5	222.50	1.42
507.50	0.37	0.1	21.9	295.00	1.59
577.50	0.59	0.1	22.0	365.00	1.79
580.00	0.60	0.1	21.9	437.50	1.95
620.00	1.50	0.3	9.6	507.50	2.27
640.00	2.98	0.4	5.1	577.50	2.86
670.00	7.09	0.6	2.1	580.00	2.85
720.00	15.52	2.0	0.4	600.00	3.36
800.00	28.44	4.7	0.3	620.00	3.84
820.00	31.52	5.4	0.3	630.00	3.98
830.00	33.06	5.7	0.3	640.00	3.81
840.00	34.63	6.1	0.3	670.00	3.37
880.00	41.22	8.0	0.2	700.00	2.26
920.00	48.84	9.9	0.2	720.00	2.30
960.00	58.62	9.9	0.2	750.00	1.48
1000.00	59.95	9.9	0.2	800.00	0.77
1100.00	59.89	8.4	0.1	820.00	0.93
1120.00	62.05	8.8	0.1	830.00	1.54
1360.00	71.05	2.3	0.1	840.00	1.00
1502.50	73.53	9.3	0.2	880.00	0.79
1572.50	70.71	4.9	0.1	900.00	1.01
1650.00	67.12	3.4	0.1	920.00	1.11
1750.00	67.73	7.7	0.1	940.00	1.28
1800.00	70.74	9.5	0.1	960.00	1.15
1850.00	68.64	9.1	0.1	1000.00	1.02
1950.00	68.21	7.1	0.1	1100.00	0.95
2000.00	65.82	4.6	0.1	1120.00	0.85

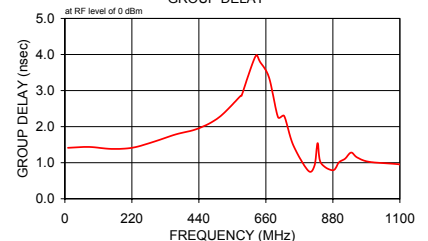
INSERTION LOSS



RETURN LOSS



GROUP DELAY



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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