

Low Pass Filter

PLP-850-75

75Ω DC to 750 MHz

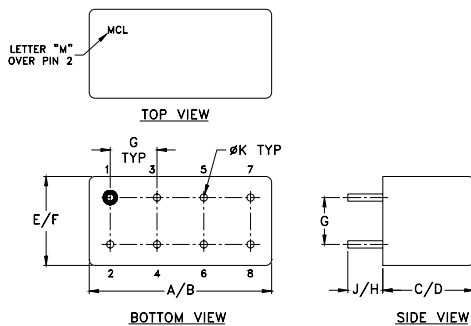
Maximum Ratings

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.	

Pin Connections

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

Outline Drawing



Outline Dimensions (inch/mm)

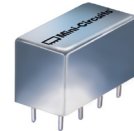
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

Features

- rugged welded case, hermetic
- other standard and custom PLP models available with wide selection of fco

Applications

- test equipment
- lab use
- transmitters/receivers
- military/hi-rel applications

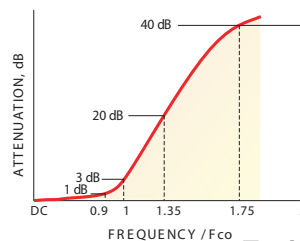


CASE STYLE: A01

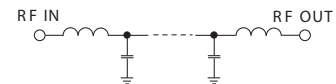
Low Pass Filter Electrical Specifications

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-750	850	1150-1490 1490-2000	1.7 18

typical frequency response

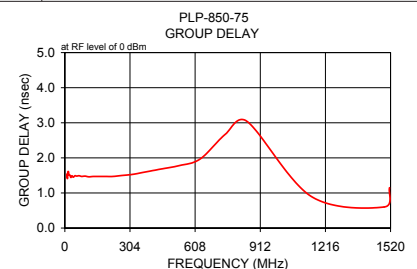
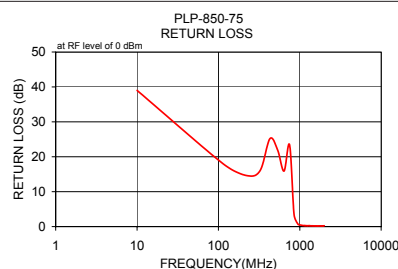
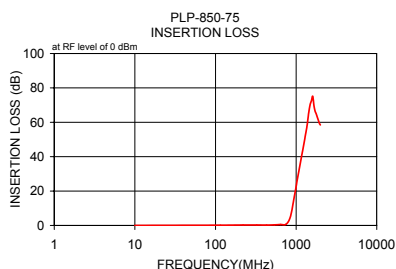


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$ σ			
10.00	0.00	0.01	10.00	1.54
115.00	0.11	0.00	11.91	1.41
220.00	0.25	0.01	14.07	1.60
325.00	0.26	0.03	16.62	1.61
430.00	0.21	0.03	19.64	1.51
535.00	0.32	0.03	23.52	1.51
640.00	0.53	0.06	27.79	1.44
750.00	0.71	0.06	33.28	1.49
850.00	5.08	1.38	39.32	1.45
950.00	16.83	2.42	47.09	1.49
990.00	21.45	2.68	55.63	1.48
1030.00	26.20	2.84	66.64	1.49
1070.00	30.43	2.97	78.72	1.47
1110.00	34.44	3.19	94.29	1.48
1150.00	38.50	3.39	111.38	1.46
1190.00	42.33	3.61	133.41	1.47
1250.00	47.58	4.02	157.60	1.47
1310.00	53.01	4.55	188.78	1.47
1370.00	58.31	5.90	223.00	1.47
1430.00	65.45	9.61	267.11	1.50
1490.00	70.21	7.22	315.54	1.53
1550.00	72.57	2.22	377.96	1.60
1606.30	75.16	7.29	446.48	1.68
1662.50	69.79	3.15	534.80	1.78
1718.80	66.56	1.75	631.76	1.97
1775.00	64.92	2.48	750.00	2.68
1831.30	62.90	1.72	850.00	3.04
1887.50	61.09	1.20	1150.00	0.90
1943.80	59.41	1.25	1490.00	0.60
2000.00	58.48	1.28	1515.07	1.15



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-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document 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

