

Plug-In Low Pass Filter

PLP-600-75+

75Ω DC to 580 MHz

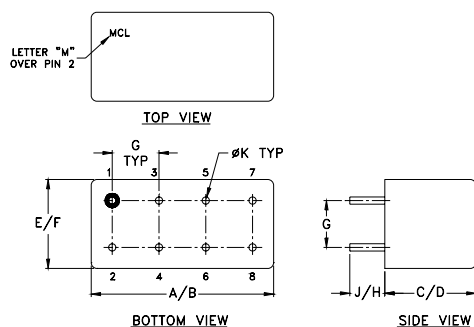
Maximum Ratings

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.	

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)

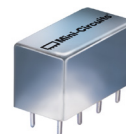
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

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

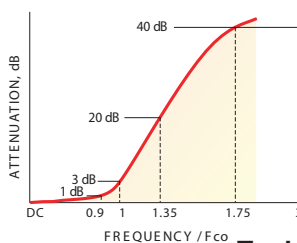
+RoHS Compliant

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

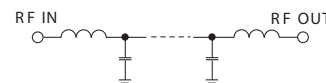
Low Pass Filter Electrical Specifications

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-580	640	840-1120 1120-2000	1.7 18

typical frequency response

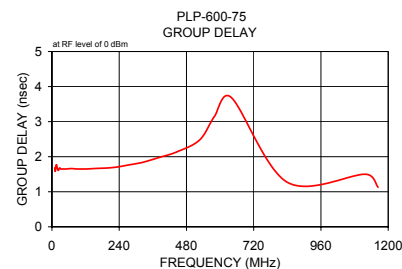
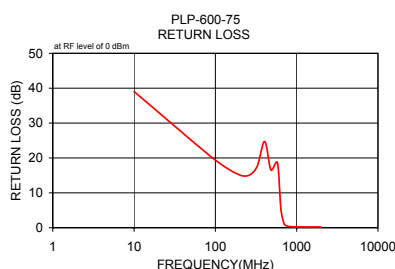
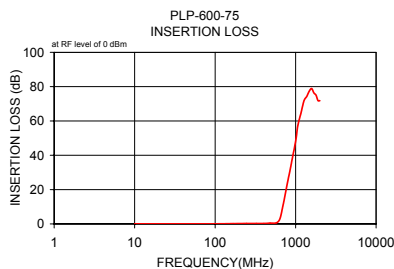


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
10.00	0.03	0.01	10.00	1.68
88.80	0.06	0.02	11.91	1.58
167.50	0.17	0.03	14.07	1.73
246.30	0.23	0.02	16.62	1.77
325.00	0.24	0.02	19.64	1.66
403.80	0.23	0.04	23.20	1.61
482.50	0.45	0.10	27.40	1.68
580.00	0.67	0.11	32.00	1.65
640.00	3.15	1.32	38.24	1.65
700.00	11.10	2.40	45.17	1.65
728.00	15.12	2.59	53.36	1.65
756.00	19.01	2.76	63.04	1.66
784.00	22.88	2.93	74.46	1.66
812.00	26.53	3.06	87.96	1.65
840.00	29.84	3.26	103.91	1.65
868.00	33.13	3.50	122.75	1.65
918.40	39.24	4.03	145.00	1.66
968.80	44.53	4.60	171.29	1.67
1019.20	50.42	5.97	202.35	1.68
1059.60	56.66	9.07	235.74	1.71
1120.00	61.58	9.70	278.48	1.77
1170.00	64.81	7.30	324.43	1.84
1273.80	71.86	7.17	383.24	1.98
1377.50	74.32	4.38	446.48	2.14
1481.30	77.46	5.00	527.43	2.48
1585.00	78.86	4.18	580.00	3.15
1688.80	76.30	5.08	640.00	3.69
1792.50	75.09	5.40	840.00	1.27
1896.30	71.89	4.47	1120.00	1.50
2000.00	71.83	6.46	1163.76	1.13



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-Circuits' applicable established test performance criteria and measurement instructions.
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