

# Plug-In Low Pass Filter

## PLP-800+

50Ω DC to 720 MHz

### Maximum Ratings

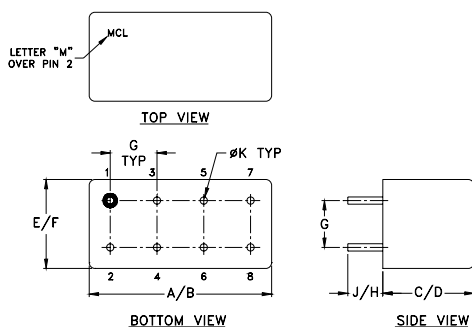
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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)

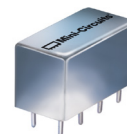
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

### 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

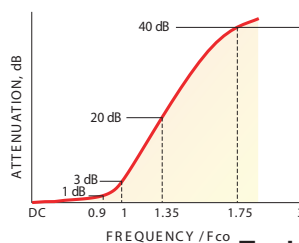
### +RoHS Compliant

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

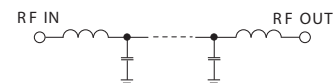
### Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
		(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-720	800	1080-1400	1400-2000	1.7	18

### typical frequency response

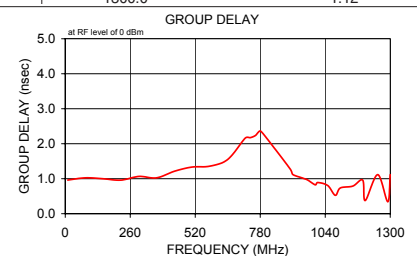
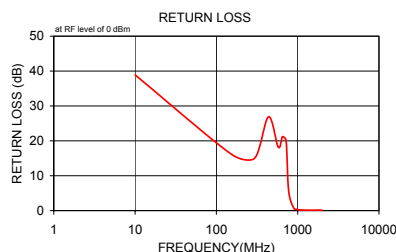
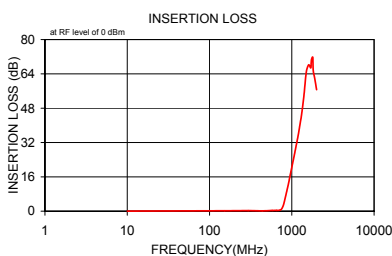


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
10.00	0.04	0.1	38.9	10.0	0.96
152.50	0.20	0.1	16.2	80.0	1.03
295.00	0.26	0.1	15.0	152.5	1.00
437.50	0.18	0.1	26.9	222.5	0.96
577.50	0.32	0.1	18.2	295.0	1.07
650.00	0.35	0.1	21.2	365.0	1.03
720.00	0.48	0.1	20.1	437.5	1.22
760.00	1.36	0.2	8.0	507.5	1.33
800.00	3.45	0.3	3.7	577.5	1.36
900.00	11.91	0.5	0.6	650.0	1.55
950.00	16.24	0.5	0.4	720.0	2.16
1000.00	20.40	0.6	0.3	740.0	2.17
1010.00	21.22	0.6	0.2	760.0	2.23
1050.00	24.40	0.7	0.2	780.0	2.36
1080.00	26.70	0.7	0.2	800.0	2.21
1100.00	28.21	0.7	0.2	900.0	1.27
1190.00	34.98	1.0	0.1	910.0	1.12
1250.00	39.81	1.3	0.1	950.0	1.02
1290.00	43.03	1.5	0.1	970.0	0.96
1300.00	43.66	1.4	0.1	1000.0	0.83
1400.00	53.30	3.1	0.1	1010.0	0.89
1500.00	64.81	3.4	0.1	1050.0	0.80
1600.00	68.20	6.6	0.1	1080.0	0.53
1700.00	66.77	2.9	0.1	1100.0	0.73
1720.00	68.97	6.7	0.1	1150.0	0.79
1735.00	70.75	8.2	0.1	1190.0	0.96
1800.00	71.72	6.9	0.1	1200.0	0.38
1820.00	65.74	5.8	0.1	1250.0	1.12
1900.00	61.76	6.1	0.1	1290.0	0.35
2000.00	56.62	3.2	0.1	1300.0	1.12



### 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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