

# Plug-In Low Pass Filter

## PLP-600+ PLP-600

50Ω DC to 580 MHz

### Maximum Ratings

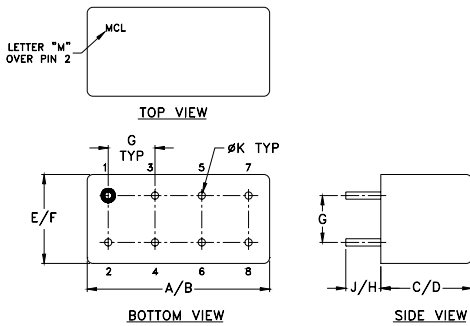
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

Permanent damage may occur if any of these limits are exceeded.

### 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



Generic photo used for illustration purposes only

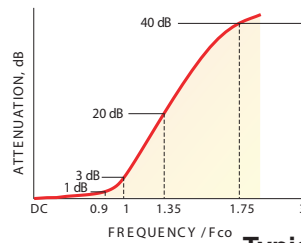
CASE STYLE: A01

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

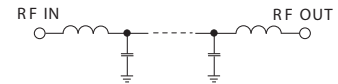
### Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
		(loss > 20 dB)	(loss > 40 dB)	Passband Typ.	Stopband Typ.
DC-580	640	840-1120	1120-2000	1.7	18

### typical frequency response

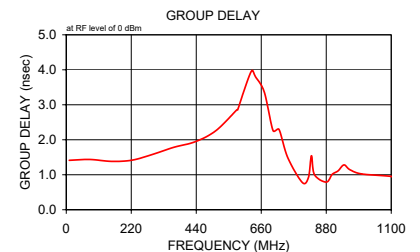
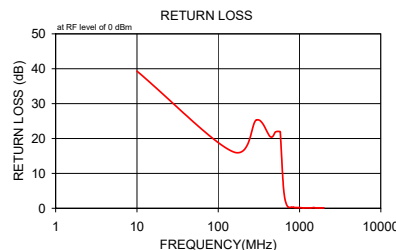
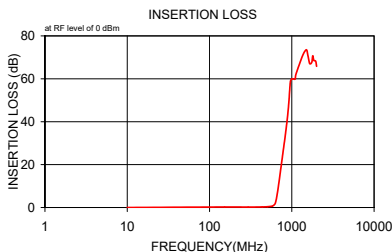


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
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



### 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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