

Low Pass Filter

PLP-250+

50Ω DC to 225 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

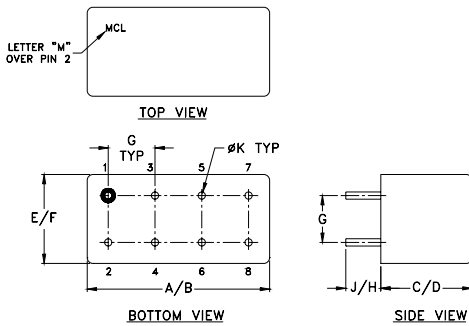
RF Power Input 0.5W max.

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

Pin Connections

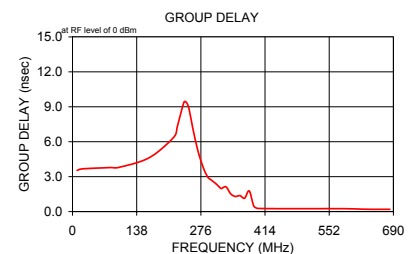
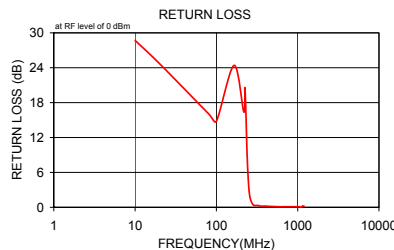
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

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	

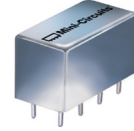


Features

- 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

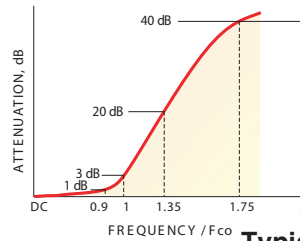
+RoHS Compliant

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

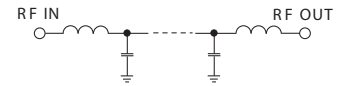
Low Pass Filter Electrical Specifications

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-225	250	320-400 400-1200	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	0.1	10.00	3.54
20.00	0.03	0.1	20.00	3.66
80.00	0.20	0.1	80.00	3.78
100.00	0.28	0.1	100.00	3.80
165.00	0.27	0.1	165.00	4.63
217.50	0.60	0.1	217.50	6.37
225.00	0.64	0.1	225.00	7.25
240.00	1.59	0.3	230.00	8.00
250.00	3.87	0.6	240.00	9.42
260.00	7.27	0.9	245.00	9.37
280.00	14.62	1.0	250.00	8.91
300.00	21.27	1.1	260.00	6.90
310.00	24.28	1.2	270.00	5.18
315.00	25.71	1.2	280.00	3.91
320.00	27.12	1.3	290.00	3.02
330.00	29.77	1.3	300.00	2.66
350.00	34.87	1.6	310.00	2.33
370.00	39.35	1.9	315.00	2.14
380.00	41.63	2.0	320.00	1.98
390.00	43.91	2.3	330.00	2.13
400.00	46.09	2.7	340.00	1.53
580.00	69.80	3.0	350.00	1.30
682.50	69.02	1.5	360.00	1.37
785.00	69.27	2.4	370.00	1.15
890.00	69.72	4.5	380.00	1.78
992.50	70.16	5.1	390.00	0.46
1045.00	73.29	6.6	400.00	0.27
1097.50	70.40	5.6	580.00	0.25
1147.50	71.08	3.9	630.00	0.20
1200.00	71.31	2.1	682.50	0.20

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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