

Plug-In Low Pass Filter

75Ω DC to 22 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

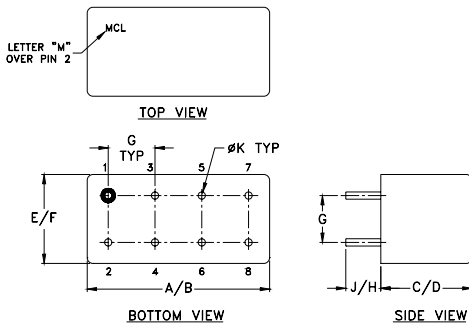
RF Power Input 0.5W max.

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

Pin Connections

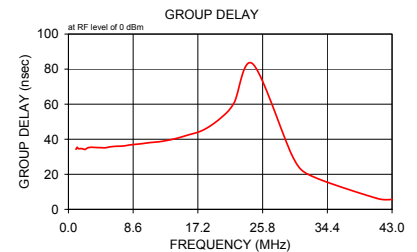
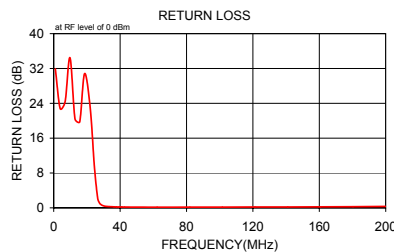
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

Outline Drawing



Outline Dimensions (inch)

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

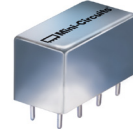


Notes

- 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.
- 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



PLP-21.4-75+
PLP-21.4-75



CASE STYLE: A01

+RoHS Compliant

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

Features

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

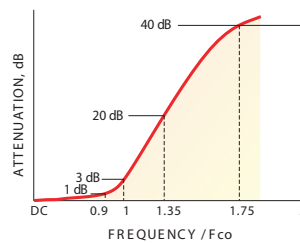
Applications

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

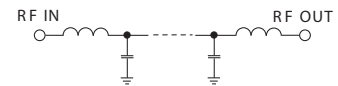
Low Pass Filter Electrical Specifications

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-22	24.5	32-41 41-200	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		
1.00	0.03	0.02	1.00	34.25
3.90	0.08	0.02	1.15	35.37
6.90	0.10	0.02	1.31	34.65
9.80	0.12	0.02	1.49	34.57
12.80	0.21	0.03	1.70	34.69
15.70	0.28	0.04	1.94	34.46
18.60	0.33	0.03	2.22	34.18
22.00	0.57	0.05	2.53	35.06
24.50	1.68	0.34	2.89	35.37
26.50	6.69	0.88	3.30	35.39
27.60	10.63	0.91	3.76	35.25
28.70	14.56	0.86	4.29	35.22
29.80	18.27	0.80	4.90	35.14
30.90	21.71	0.76	5.59	35.69
32.00	24.92	0.72	6.38	35.99
33.10	27.92	0.68	7.28	36.15
34.70	31.99	0.65	8.31	36.84
36.30	35.75	0.64	9.48	37.34
37.80	39.04	0.63	10.82	38.10
39.40	42.36	0.66	12.22	38.68
41.00	45.59	0.70	13.94	40.03
42.60	48.48	0.68	15.74	42.23
62.30	86.22	7.37	17.96	45.34
82.00	84.27	2.85	20.27	52.21
101.60	80.44	2.15	22.00	60.69
121.30	85.58	2.35	24.50	82.98
141.00	83.93	5.17	29.79	30.12
160.70	87.05	7.84	32.00	19.62
180.30	84.80	4.04	41.00	6.24
200.00	86.54	5.90	43.00	5.59