

Low Pass Filter

PBLP-467+ PBLP-467

50Ω Flat Time Delay DC to 280 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

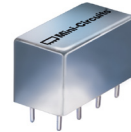
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

Features

- flat group delay for low pulse distortion
- rugged shielded case, hermetic
- other PBLP models available with wide selection of cut-off frequencies

Applications

- linear modulation techniques
- voice transmission applications
- digital communications



CASE STYLE: A01

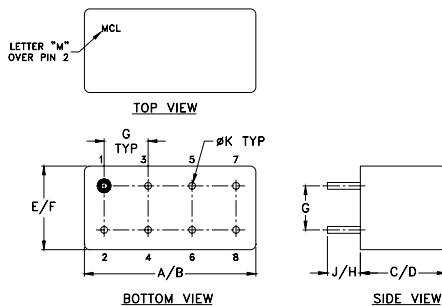
+RoHS Compliant

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)	GROUP DELAY VARIATION (nsec)
(loss <1.2 dB) Min.	(loss 3 dB)	(loss > 10 dB) (loss > 20 dB)	DC-0.2fco DC-0.6fco X X	DC-fco DC-2fco DC-2.67fco X X X
DC-280	467	934-1246 1246	1.25:1 2.2:1	0.15 0.4 0.55

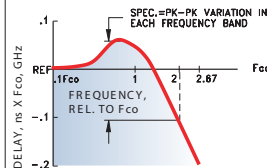
Outline Drawing



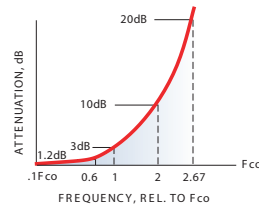
Outline Dimensions (inch/mm)

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

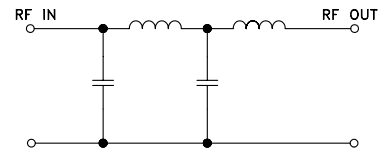
TYPICAL GROUP DELAY



TYPICAL FREQUENCY RESPONSE INSERTION LOSS

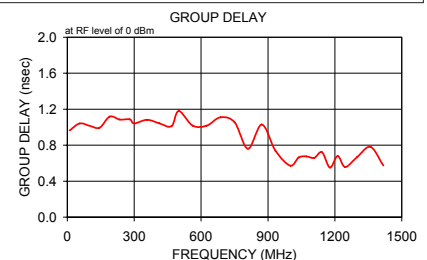
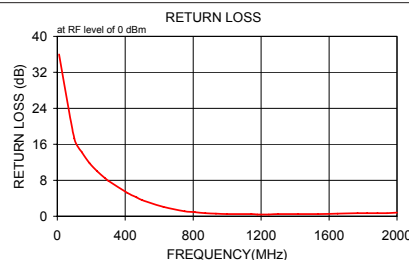


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$ σ			
10.0	0.07	0.1	10.0	0.963
100.0	0.18	0.1	55.0	1.041
145.0	0.28	0.1	100.0	1.016
190.0	0.42	0.1	145.0	0.994
235.0	0.61	0.1	190.0	1.118
280.0	0.85	0.1	235.0	1.085
300.0	0.98	0.1	280.0	1.088
412.0	2.01	0.1	300.0	1.042
467.0	2.72	0.1	357.5	1.083
500.0	3.19	0.2	412.5	1.043
625.0	5.57	0.2	467.0	1.010
750.0	8.71	0.3	500.0	1.180
810.0	10.34	0.4	562.5	1.017
872.0	12.19	0.4	625.0	1.017
934.0	14.02	0.5	687.5	1.110
1000.0	15.94	0.5	750.0	1.055
1072.5	18.12	0.6	810.0	0.762
1142.5	20.11	0.7	872.5	1.030
1177.5	21.14	0.7	934.0	0.736
1212.5	22.15	0.7	1000.0	0.572
1246.0	23.12	0.8	1037.5	0.663
1300.0	24.56	0.8	1072.5	0.675
1417.5	27.75	0.9	1107.5	0.659
1535.0	30.82	1.0	1142.5	0.722
1650.0	33.70	1.1	1177.5	0.551
1767.5	36.46	1.2	1212.5	0.679
1825.0	37.83	1.5	1246.0	0.558
1885.0	39.23	1.6	1300.0	0.668
1942.5	40.45	1.6	1360.0	0.781
2000.0	41.59	1.8	1417.5	0.573



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.
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