

50Ω Flat Time Delay DC to 180 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**

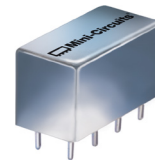
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

Features

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

Applications

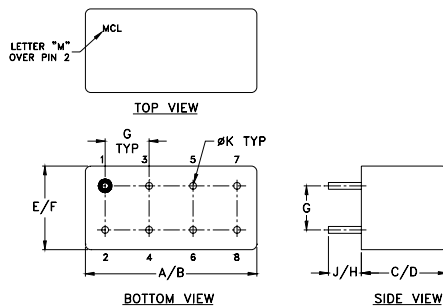
- linear modulation techniques
- voice transmission applications
- digital communications



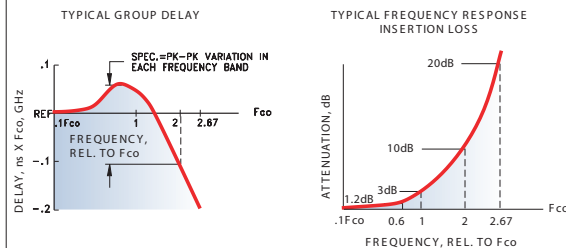
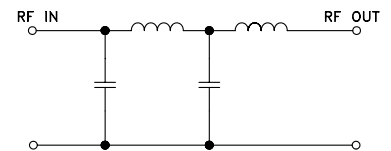
CASE STYLE: A01

Low Pass Filter Electrical Specifications

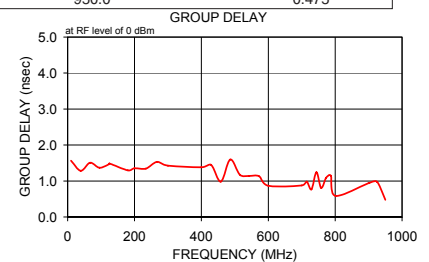
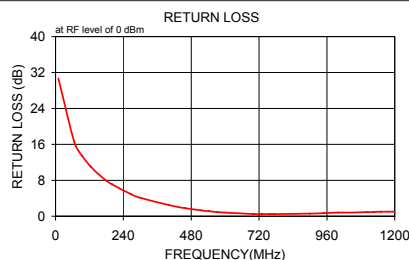
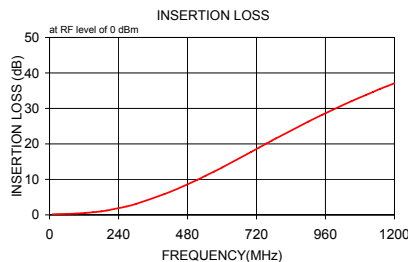
PASSBAND (MHz)	fco, MHz Nom.	STOPBAND (MHz)	VSWR (:1)	GROUP DELAY (nsec)
(loss < 1.2 dB) Min.	(loss 3 dB)	(loss > 10 dB) (loss > 20 dB)	DC-0.2fco DC-0.6fco X X	DC-fco DC-2fco DC-2.67fco X X X
DC-180	300	600-801 801	1.25:1 2.2:1	0.2 0.6 0.8

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

**electrical schematic****Typical Performance Data**

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$ σ			
10.0	0.16	0.2	10.0	1.563
67.0	0.27	0.2	39.0	1.282
95.0	0.37	0.1	67.0	1.509
124.0	0.53	0.1	95.0	1.368
152.0	0.73	0.1	124.0	1.468
180.0	0.99	0.1	125.0	1.487
200.0	1.24	0.1	180.0	1.297
267.0	2.35	0.2	200.0	1.351
300.0	3.06	0.2	234.0	1.343
400.0	5.85	0.2	267.0	1.534
458.0	7.82	0.2	300.0	1.427
515.0	9.91	0.3	400.0	1.383
543.0	11.02	0.4	429.0	1.448
572.0	12.18	0.4	458.0	0.984
600.0	13.35	0.5	486.0	1.599
700.0	17.70	0.5	515.0	1.173
729.0	18.96	0.6	543.0	1.140
758.0	20.25	0.6	572.0	1.134
773.0	20.92	0.6	600.0	0.869
787.0	21.51	0.6	700.0	0.878
801.0	22.10	0.6	715.0	0.983
900.0	26.28	0.7	729.0	0.767
950.0	28.25	0.7	744.0	1.244
1000.0	30.16	0.8	758.0	0.807
1050.0	32.02	0.9	773.0	1.089
1100.0	33.74	0.9	787.0	1.144
1125.0	34.62	1.1	801.0	0.587
1150.0	35.50	1.2	900.0	0.940
1175.0	36.29	1.2	925.0	0.980
1200.0	37.10	1.4	950.0	0.475

**Notes**

- A. 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.
 B. 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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