

Plug-In

Bandpass Filter

50Ω Constant Impedance 35 to 49 MHz

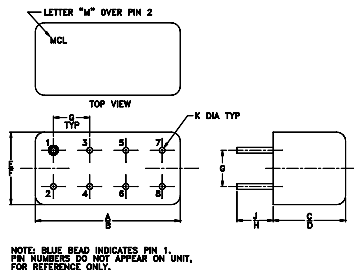
Maximum Ratings

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

Pin Connections

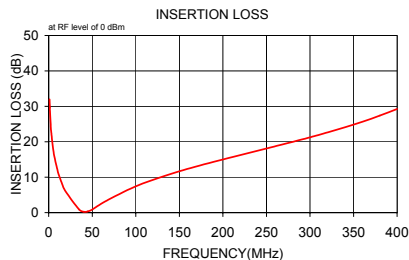
INPUT	1
OUTPUT	6
GROUND	2,3,4,5,7,8
CASE GROUND	2,5,7,8

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



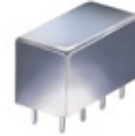
Features

- low VSWR in pass & stopbands, 1.3:1 typ.
- shielded welded case, hermetically sealed
- custom designs available

Applications

- harmonic rejection
- lab use
- military/hi-rel applications

PIF-40+
PIF-40



CASE STYLE: A01
PRICE: \$17.20 ea. QTY: 1-9

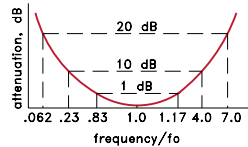
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

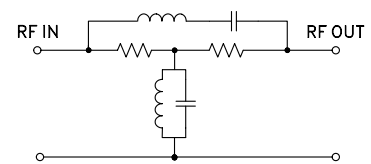
Bandpass Filter Electrical Specifications

MODEL NO.	CENTER FREQ. (MHz)	PASSBAND (MHz)	STOPBANDS	VSWR, 1.3:1 Typ. TOTAL BAND (MHz)
		(loss < 1 dB)	(loss > 10 dB) at MHz (loss > 20 dB) at MHz	
PIF-40	42	35-49	10 & 168 2.6 & 300	DC-400

typical frequency response

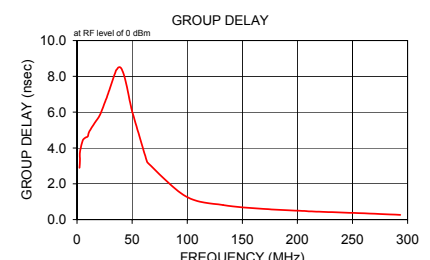
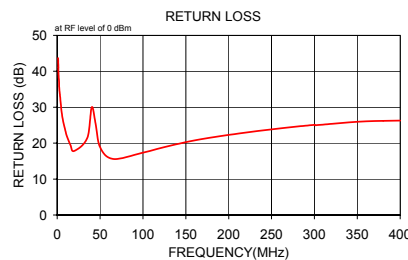


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
$\bar{x}$	σ			
1.0	31.97	0.1	2.3	2.895
1.3	29.62	0.1	2.6	3.319
1.6	27.72	0.1	2.7	3.755
2.0	26.20	0.1	5.2	4.422
2.3	24.90	0.1	7.5	4.574
2.6	23.77	0.1	9.9	4.649
3.0	22.54	0.1	11.0	4.904
5.3	17.56	0.1	16.1	5.402
7.7	14.41	0.1	20.9	5.852
10.0	12.05	0.1	26.2	6.700
11.0	11.21	0.1	27.1	6.840
15.3	8.20	0.1	35.1	8.288
19.7	5.92	0.1	36.3	8.399
35.0	0.86	0.1	37.6	8.498
40.3	0.23	0.1	39.6	8.488
44.7	0.31	0.1	41.7	8.249
50.0	0.88	0.1	43.2	7.937
65.0	3.17	0.1	45.4	7.393
99.3	7.37	0.2	47.0	6.910
133.7	10.43	0.2	48.7	6.395
168.0	12.93	0.3	50.4	5.956
212.0	15.76	0.3	63.1	3.323
256.0	18.46	0.4	64.2	3.167
300.0	21.25	0.5	98.9	1.296
301.0	21.32	0.5	132.6	0.812
320.8	22.67	0.6	168.9	0.599
340.60	24.13	0.7	207.7	0.474
360.40	25.67	0.9	211.3	0.462
380.20	27.40	1.1	255.6	0.363
400.00	29.24	1.4	293.4	0.264



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