

Plug-In Bandpass Filter

ECO PIF-30+

50Ω Constant Impedance 25 to 35 MHz

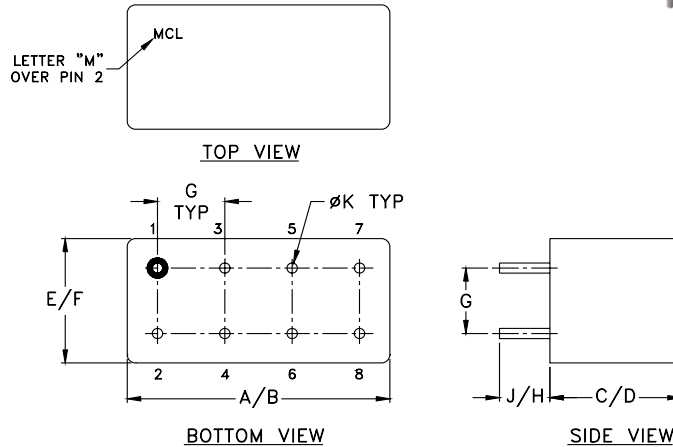
Features

- 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

Outline Drawing



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

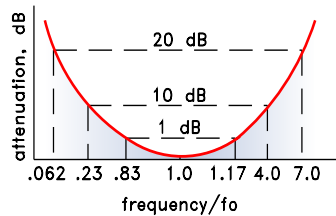
INPUT	1
OUTPUT	6
GROUND	2,3,4,5,7,8
CASE GROUND	2,5,7,8

Outline Dimensions (inch/mm)

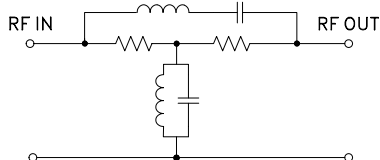
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K		wt
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

typical frequency response

BANDPASS, CONSTANT IMPEDANCE
TYPICAL FREQUENCY RESPONSE



electrical schematic



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-30+	30	25-35	7 & 120 1.9 & 210	DC-330

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
$\bar{x}$	σ			
1.0	30.97	0.1	5.3	4.911
1.2	29.52	0.1	7.0	5.392
1.4	28.29	0.1	8.0	5.612
1.5	27.23	0.1	12.0	6.685
1.7	26.25	0.1	16.0	8.448
1.9	25.40	0.1	20.0	10.612
2.0	24.95	0.1	21.0	11.190
5.3	16.33	0.1	25.0	12.864
7.0	13.88	0.1	26.0	13.075
8.0	12.64	0.1	27.3	13.145
12.0	8.66	0.1	28.8	12.980
16.0	5.59	0.1	30.0	12.639
20.0	3.10	0.1	31.0	12.237
26.0	0.66	0.1	32.3	11.647
28.7	0.26	0.1	33.8	10.775
31.0	0.25	0.1	35.0	10.047
33.7	0.55	0.1	36.0	9.449
44.0	2.99	0.1	44.0	5.471
45.0	3.25	0.1	45.0	5.093
70.0	8.33	0.1	70.0	1.581
95.0	11.72	0.1	95.0	0.883
120.0	14.33	0.1	120.0	0.718
121.0	14.43	0.1	121.0	0.703
180.0	19.47	0.1	150.8	0.518
210.0	21.85	0.1	180.3	0.428
211.0	21.93	0.1	210.0	0.305
258.6	26.09	0.2	233.8	0.196
282.4	28.52	0.2	234.0	0.244
306.2	31.23	0.3	258.0	0.031
330.0	34.20	0.4	282.0	0.378

