

ECO PIF-50+

50Ω Constant Impedance 41 to 58 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

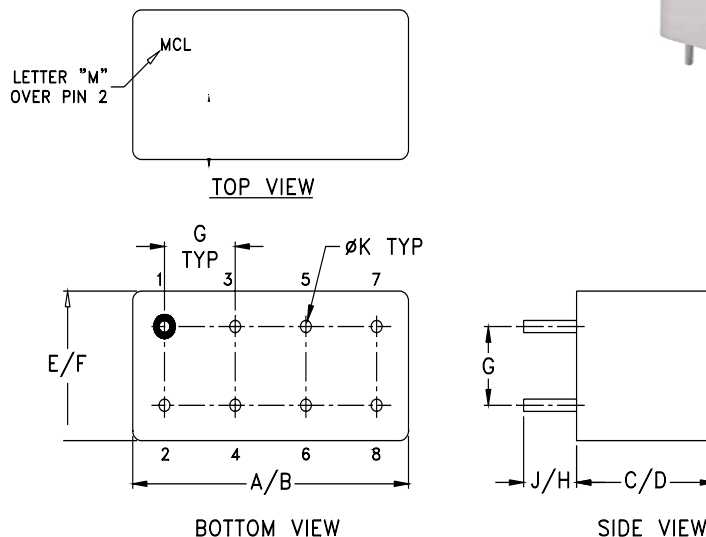
Maximum Ratings

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 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

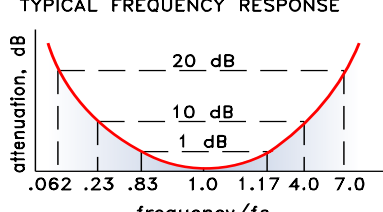
Bandpass Filter Electrical Specifications

MODEL NO.	CENTER FREQ. (MHz)	PASSBAND (MHz)	STOPBANDS		VSWR, 1.3:1 Typ. TOTAL BAND (MHz)
			(loss > 10 dB) at MHz	(loss > 20 dB) at MHz	
PIF-50+	50	41-58	11.5 & 200	3.1 & 350	DC-440

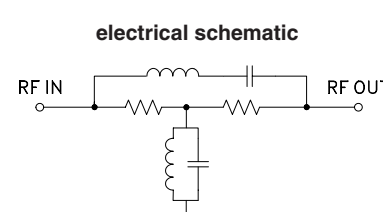
Typical Performance Data

typical frequency response

BANDPASS, CONSTANT IMPEDANCE
TYPICAL FREQUENCY RESPONSE



electrical schematic



Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
1.0	33.62	0.2	3.1	1.540
1.4	30.60	0.2	3.2	2.572
1.8	28.39	0.2	5.9	3.434
2.3	26.60	0.2	8.7	3.800
2.7	25.16	0.2	11.4	3.893
3.1	23.91	0.2	11.6	3.910
4.0	21.72	0.3	18.2	4.448
9.0	14.63	0.2	24.4	5.257
11.5	12.44	0.2	31.1	6.290
20.0	7.25	0.2	32.2	6.428
23.7	5.61	0.2	41.0	7.293
27.3	4.18	0.2	41.7	7.342
31.0	2.95	0.2	43.9	7.325
41.0	0.70	0.1	46.2	7.197
45.5	0.28	0.1	48.7	6.905
50.0	0.21	0.1	51.3	6.571
53.0	0.34	0.1	53.1	6.309
77.0	3.12	0.1	55.9	5.874
80.0	3.52	0.1	57.9	5.441
120.0	7.84	0.1	58.9	5.242
160.0	10.99	0.2	77.6	2.769
200.0	13.61	0.2	117.5	1.114
250.0	16.51	0.2	119.5	1.093
316.7	20.38	0.4	160.3	0.679
350.0	22.46	0.4	200.7	0.525
390.0	25.29	0.6	246.9	0.414
402.5	26.25	0.7	251.2	0.408
415.0	27.29	0.8	298.5	0.306
427.5	28.35	0.9	342.8	0.185
440.0	29.49	1.0	348.7	0.163