

Plug-In Bandpass Filter

ECO PIF-70+

50Ω Constant Impedance 58 to 82 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.

Pin Connections

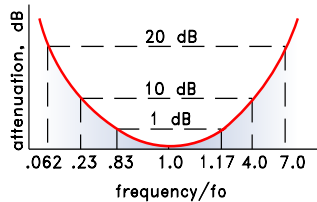
INPUT	1
OUTPUT	6
GROUND	2,3,4,5,7,8
CASE GROUND	2,5,7,8

Outline Dimensions (inch mm)

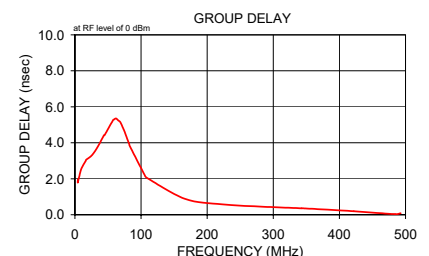
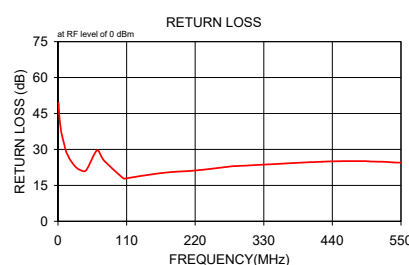
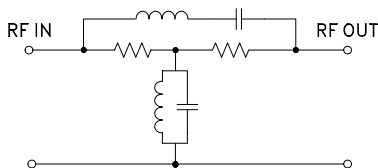
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K		wt
.200	.20	.14	.031		grams
5.08	5.08	3.56	0.79		5.2

typical frequency response

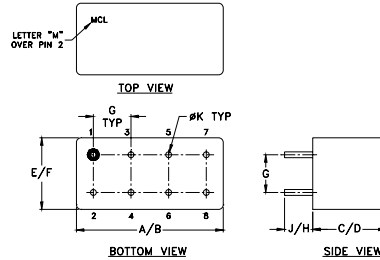
BANDPASS, CONSTANT IMPEDANCE
TYPICAL FREQUENCY RESPONSE



electrical schematic



Outline Drawing



Bandpass Filter Electrical Specifications

MODEL NO.	CENTER FREQ. (MHz)	PASSBAND (MHz) (loss < 1 dB)	STOPBANDS		VSWR, 1.3:1 Typ. TOTAL BAND (MHz)
			(loss > 10 dB) at MHz	(loss > 20 dB) at MHz	
PIF-70+	70	58-82	16 & 280	4.4 & 490	DC-550

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.0	36.56	0.2	4.4	803
1.7	32.08	0.2	4.5	2.168
2.4	29.16	0.2	8.4	2.082
3.0	27.01	0.2	12.2	0.886
3.7	25.26	0.2	16.1	0.581
4.4	23.82	0.2	17.0	0.458
6.0	21.13	0.2	26.2	0.360
12.7	14.61	0.2	35.1	0.351
16.0	12.53	0.2	43.9	0.199
20.0	10.51	0.2	44.7	0.031
28.3	7.27	0.2	57.9	0.079
36.7	4.76	0.2	58.9	
45.0	2.79	0.1	62.0	
58.0	0.77	0.1	65.3	
63.7	0.34	0.1	68.8	
70.0	0.24	0.1	72.4	
74.7	0.35	0.1	75.0	
105.	2.87	0.1	79.0	
0110.	3.34	0.2	81.8	
0166.	7.80	0.2	83.2	
7223.	11.10	0.2	105.	
3280.	13.80	0.3	9107.	
0290.	14.28	0.3	8166.	
0423.	20.50	0.9	0222.	
3490.	24.04	1.4	6278.	
0500.	24.60	1.5	6342.	
0512.	25.30	1.5	8348.	
5525.	25.98	1.6	7421.	
0537.	26.70	1.6	7484.	
5550.0	27.34	1.4	2492.6	