

Plug-In

Bandpass Filter

50Ω Constant Impedance 58 to 82 MHz

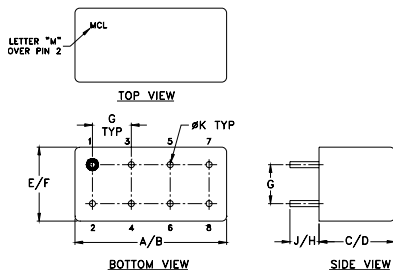
Maximum Ratings

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

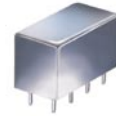
Features

- 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-70+
PIF-70



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

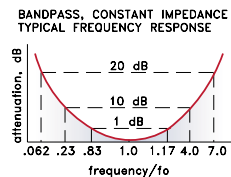
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

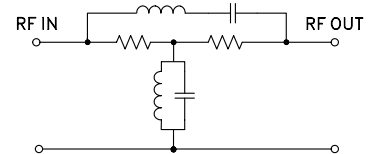
Bandpass Filter Electrical Specifications

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-70(+)	70	58-82	16 & 280 4.4 & 490	DC-550

typical frequency response

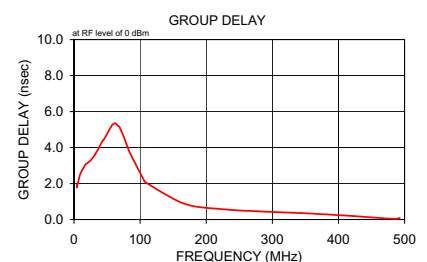
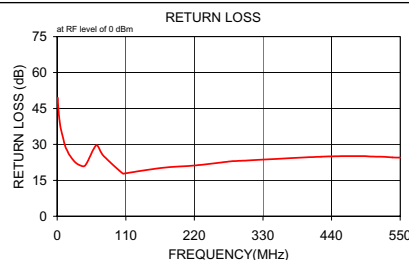


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
$\bar{x}$	σ			
1.0	36.56	0.2	4.4	1.965
1.7	32.08	0.2	4.5	1.803
2.4	29.16	0.2	4.8	2.416
3.0	27.01	0.2	12.2	2.736
3.7	25.26	0.2	16.1	2.984
4.4	23.82	0.2	17.0	3.059
6.0	21.13	0.2	26.2	3.326
12.7	14.61	0.2	35.1	3.817
16.0	12.53	0.2	43.9	4.422
20.0	10.51	0.2	44.7	4.419
28.3	7.27	0.2	57.9	5.270
36.7	4.76	0.2	58.9	5.288
45.0	2.79	0.1	62.0	5.357
58.0	0.77	0.1	65.3	5.248
63.7	0.34	0.1	68.8	5.146
70.0	0.24	0.1	72.4	4.843
74.7	0.35	0.1	75.0	4.639
105.0	2.87	0.1	79.0	4.231
110.0	3.34	0.2	81.8	3.959
166.7	7.80	0.2	83.2	3.803
223.3	11.10	0.2	105.9	2.168
280.0	13.80	0.3	107.8	2.082
290.0	14.28	0.3	166.0	0.886
423.3	20.50	0.9	222.6	0.581
490.0	24.04	1.4	278.6	0.458
500.0	24.60	1.5	342.8	0.360
512.5	25.30	1.5	348.7	0.351
525.0	25.98	1.6	421.7	0.199
537.5	26.70	1.6	484.2	0.031
550.0	27.34	1.4	492.6	0.079



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