

Bandpass Filter

50Ω Elliptic Response 19.2 to 23.6 MHz

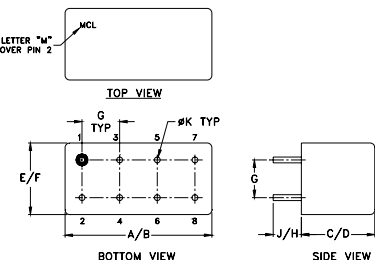
Maximum Ratings

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

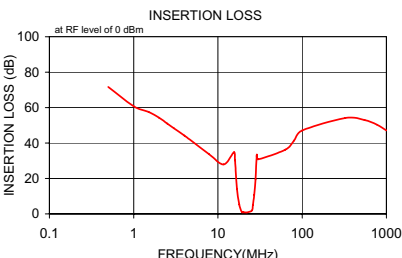
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

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 insertion loss, 1.5 dB max.
- good selectivity, 1.76 typ. 20 dB/3 dB BW ratio
- rugged shielded case, hermetically sealed

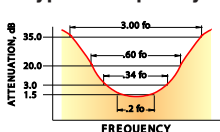
Applications

- military hi-rel systems
- high rejection applications
- image rejection
- IF signal processing

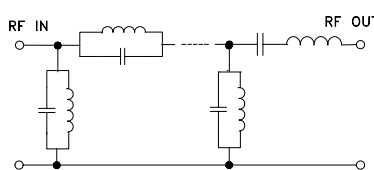
Bandpass Filter Electrical Specifications

CENTER FREQ. (MHz)	PASSBAND (MHz)	3dB BANDWIDTH (MHz)	STOPBANDS		VSWR (:1)	
	I.L. 1.5 dB Max.	Typ.	(I. loss > 20 dB) at MHz	(I. loss > 35 dB) at MHz	Passband Max.	Stopband Typ.
21.4	19.2-23.6	17.9-25.3	15.5 & 29	3.0 & 80-1000	1.7	16

typical frequency response



electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
0.5	71.63	9.9	3.0	1.719
1.0	60.77	9.9	3.1	6.056
1.5	57.59	9.9	7.3	11.010
2.0	54.26	9.9	11.4	16.139
2.5	51.03	9.9	15.6	142.895
3.0	48.32	9.1	16.1	85.576
4.0	44.25	7.7	16.4	67.524
7.8	33.81	4.4	17.3	80.808
11.7	27.91	1.1	17.9	138.773
15.5	34.76	8.5	18.8	137.539
16.0	30.17	9.6	19.2	129.275
16.8	14.18	4.6	19.5	118.671
17.9	5.30	3.1	19.8	107.675
19.2	1.05	0.2	20.5	90.324
20.2	0.95	0.2	21.3	80.937
21.4	0.86	0.2	21.6	78.721
22.2	0.85	0.2	22.4	78.107
25.3	1.90	0.5	23.2	82.720
26.0	4.97	2.3	23.6	86.828
27.0	10.74	4.2	24.8	98.805
28.0	19.34	5.7	25.3	100.146
29.0	33.39	7.4	26.2	95.668
30.0	30.79	2.4	26.6	87.074
63.3	36.27	0.7	28.0	25.106
80.0	41.42	0.5	29.0	49.929
100.0	47.07	1.7	30.0	64.699
325.0	54.13	8.6	47.0	3.795
550.0	53.01	7.0	63.1	1.797
775.0	50.30	4.1	79.0	1.341
1000.0	47.08	3.5	80.4	1.116

