

Coaxial

Bandpass Filter

SIF-70

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.

Features

- low VSWR in pass- and stopbands, 1.3:1 typ
- rugged shielded case
- custom fo models available

Applications

- harmonic rejection
- lab use



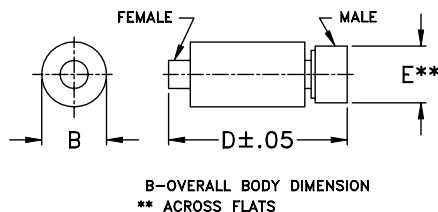
CASE STYLE: FF99

Connectors	Model	Price	Qty.
SMA	SIF-70	\$38.95 ea.	(1-9)

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	
SIF-70	70	58-82	16 & 280	4.4 & 490	DC-550

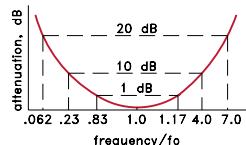
Outline Drawing



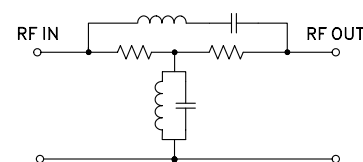
Outline Dimensions (inch/mm)

B	D	E	wt
.67	1.98	.312	grams
17.02	50.29	7.92	42.0

typical frequency response

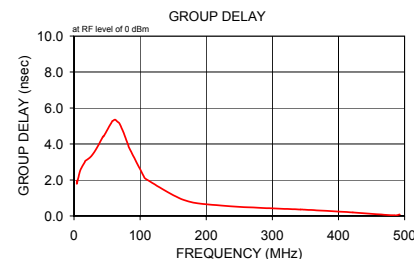
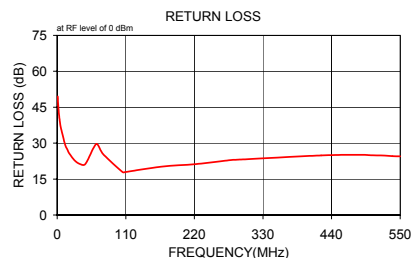


electrical schematic



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	8.4	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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