

Coaxial Bandpass Filter

50Ω 87 to 117 MHz

Features

- Very good rejection, 40 dB typ
- Good VSWR, 1.3:1 typical in passband
- Connectorized package

Applications

- Transmitters / Receivers
- Harmonic rejection
- Test equipment
- Military radio

Coaxial Connections

PORT - 1	SMA-Male
PORT - 2	SMA-Female

Outline Dimensions (inch mm)

B	D	E	Wt.
.70	1.98	.312	grams
17.78	50.29	7.92	42.0

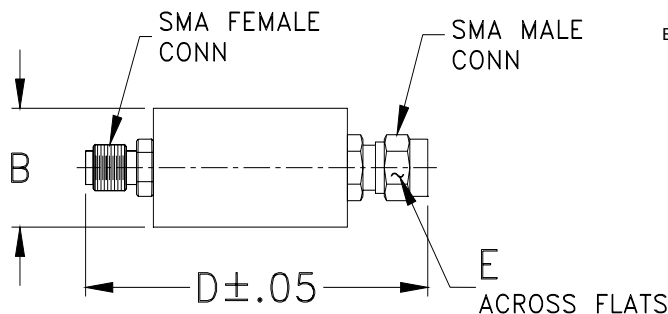
Note: Please refer to case style drawing for details

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.25 W max.

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



ECO SBP-100+

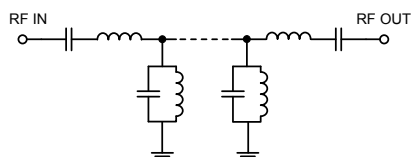
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	F1-F2	87 - 117	-	2.2	3.0	dB
	VSWR	F1-F2	87 - 117	-	1.3	1.7	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 55	40	49	-	dB
	VSWR	F3-F4	55 - 66	20	29	-	dB
Stop Band, Upper	Insertion Loss	DC-F4	DC - 66	-	20	-	:1
		F5-F6	143 - 175	20	28	-	dB
		F6-F7	175 - 1500	40	50	-	dB
	VSWR	F5-F7	143 - 1500	-	20	-	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1	115.39	13721.78	87	33.40
5	105.34	18693.40	88	31.99
8	107.35	16070.10	89	30.78
10	102.17	22155.06	90	29.74
55	50.05	248.88	91	28.83
66	31.54	66.12	92	28.04
71	21.63	28.65	93	27.39
80	3.56	1.94	94	26.84
87	1.62	1.11	95	26.39
100	1.45	1.04	96	26.00
117	2.06	1.17	97	25.67
123	3.25	1.48	98	25.37
137	20.75	16.65	99	25.12
143	27.78	24.09	100	24.89
175	52.20	52.12	111	24.92
200	64.28	66.55	112	25.24
300	91.49	91.82	113	25.59
500	102.53	89.40	115	26.47
1000	64.57	52.59	116	27.04
1500	50.06	28.68	117	27.73

Functional Schematic



Typical Frequency Response

