

Coaxial Bandpass Filter



50Ω 238 to 242 MHz

Features

- High rejection
- Good VSWR, 1.3:1 typical in passband
- Narrow bandwidth
- Flat group delay over passband
- Rugged unibody construction
- Connectorized package

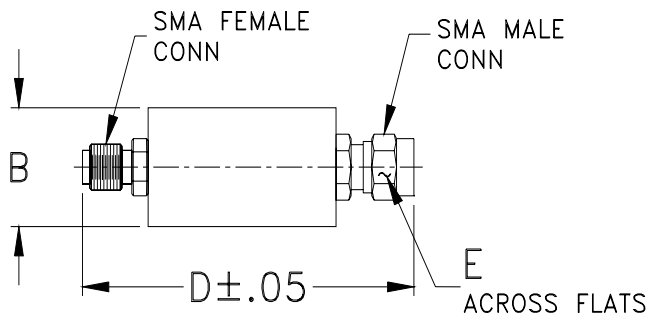
Applications

- Fixed applications
- Mobile communication

Coaxial Connections

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

Outline Drawing



ECO SBP-240+

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	0.5 W max.

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

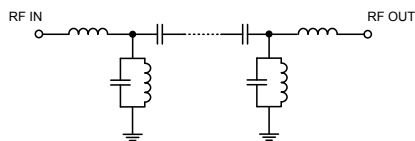
Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center frequency	-	-	240	-	MHz
	Insertion Loss	F1-F2	-	4.1	5.0	dB
	VSWR	F1-F2	-	1.3	1.8	:1
Stop Band, Lower	Insertion Loss	DC-F3	40	48	-	dB
		F3-F4	20	32	-	dB
Stop Band, Upper	Insertion Loss	F5-F6	20	30	-	dB
		F6-F7	40	50	-	dB

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
10	77.26	63.89	235.5	53.17
50	68.23	47.23	236.0	51.95
100	69.37	67.86	236.5	50.92
210	48.67	70.76	237.0	50.07
220	32.75	30.39	237.5	49.37
225	21.35	12.70	238.0	48.80
238	4.03	1.29	238.5	48.34
239	4.00	1.34	239.0	47.97
240	3.99	1.34	239.5	47.71
241	4.00	1.30	240.0	47.52
242	4.04	1.24	240.5	47.41
256	21.70	10.86	241.0	47.38
260	29.76	18.34	241.5	47.42
275	49.71	45.38	242.0	47.54
300	73.26	82.69	242.5	47.75
400	78.06	171.14	243.0	48.05
500	85.51	217.30	243.5	48.44
1000	98.33	202.26	244.0	48.97
1500	68.32	127.83	244.5	49.66
2000	55.90	85.62	245.0	50.53

Functional Schematic



Typical Frequency Response

