

Coaxial Bandpass Filter

ECO BP-1280-S+

50Ω 1170 to 1390 MHz

Features

- Low insertion loss
- High selectivity
- Connectorized package

Applications

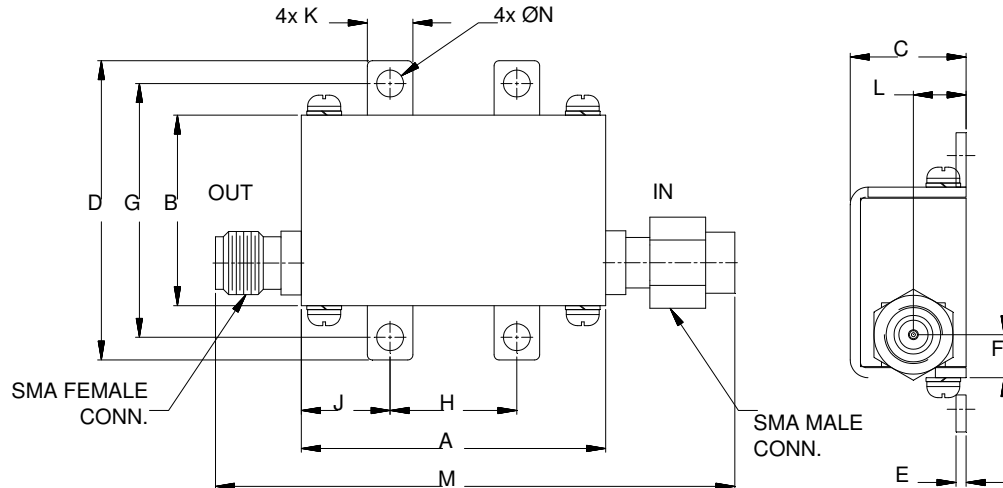
- Aviation
- Mobile radio
- Broadband
- Fixed wireless transmitters and receivers

Coaxial Connections

INPUT	SMA-MALE
OUTPUT	SMA-FEMALE



Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G
1.20	.75	.46	1.18	.04	.17	1.00
30.48	19.05	11.68	29.97	1.02	4.32	25.40

H	J	K	L	M	N	Wt.
.50	.35	.18	.21	2.05	.106	grams
12.70	8.89	4.57	5.28	52.07	2.69	35.0

Note: Please refer to case style drawing for details

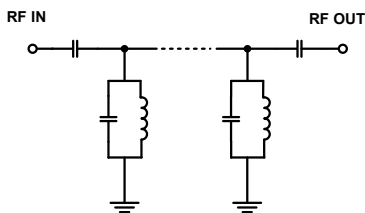
Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	1280	-	Hz
	Insertion Loss	F1-F2	-	0.81	-	dB
	VSWR	F1-F2	-	335	-	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	-	-	dB
	VSWR	DC-F3	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	27	-	dB
	VSWR	F4-F5	-	20	-	:1

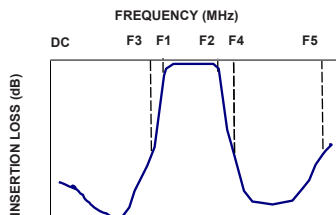
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	5 W max.

* Passband rating, derate linearly to 3.5W at 85°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	101.80	4953.60	1170	3.503
500	61.85	221.38	1176	43.3
950	34.92	66.99	1182	36.3
970	30.56	61.67	1190	27.3
990	26.18	55.04	1200	17.3
10001	23.95	50.85	1204	13.3
01510	20.53	43.66	1214	03.2
60109	9.56	14.77	1222	96.2
01170	3.26	3.75	1234	87.2
12801	0.85	1.23	1248	77.2
39015	0.76	1.26	1262	69.2
20161	0.74	1.18	1280	61.2
01750	3.43	4.59	1292	58.2
18501	10.09	19.93	1314	53.2
90020	20.29	54.78	1332	50.2
00230	27.14	66.54	1342	49.2
02550	30.95	70.10	1354	48.2
	42.25	74.82	1370	48.2
	36.91	81.27	1380	48.2
	39.38	82.53	1390	50

