

Coaxial Bandpass Filter

50Ω 900 to 1370 MHz

Features

- Low insertion loss of typical 0.6 dB
- Good matching and good out of band rejection
- Connectorized package

Applications

- Defence / Military
- L-Band applications
- Radio astronomy
- Wireless medical telemetry

Coaxial Connections

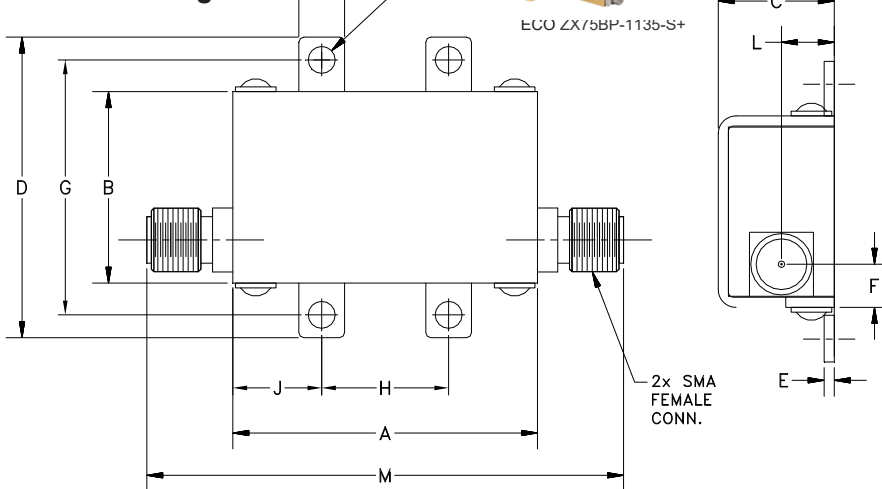
PORT - 1	SMA-FEMALE
PORT - 2	SMA-FEMALE

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	1.88	.106	grams
12.70	8.89	4.57	5.28	47.75	2.69	35.0

Note: Please refer to case style drawing for details

Outline Drawing



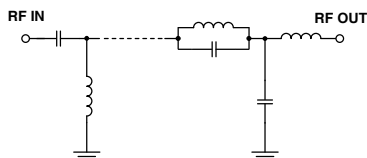
Electrical Specifications at 25°C

Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	10 W max. @ 25°C

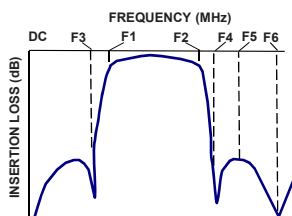
RF power derate linearly to 5 W @ 85°C
Permanent damage may occur if any of these limits are exceeded.

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	1135	-	MHz
	Insertion Loss	F1-F2	900 - 1370	0.6	1.2	dB
	VSWR	F1-F2	900 - 1370	1.35	1.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 500	40	45	dB
	VSWR	DC-F3	DC - 500	28	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	2000 - 2800	40	50	dB
	Insertion Loss	F5-F6	2800 - 5600	40	-	dB
	VSWR	F4-F6	2000 - 5600	28	-	:1

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	90.92	434.30	900	1.66
105	50.27	1737.18	930	1.58
380	47.04	347.44	960	1.52
500	50.91	157.93	990	1.46
550	30.79	115.81	1020	1.42
595	20.96	72.39	1050	1.40
700	3.19	4.43	1080	1.39
900	0.33	1.05	1110	1.38
1135	0.35	1.10	1135	1.39
1370	0.50	1.14	1170	1.40
1500	3.02	3.94	1200	1.42
1700	20.85	30.49	1230	1.43
1800	30.82	37.77	1260	1.46
2000	70.72	52.65	1290	1.50
2500	55.52	78.97	1320	1.56
2800	65.71	69.49	1330	1.59
3000	55.68	59.91	1340	1.62
4000	62.36	45.72	1350	1.66
5000	51.08	38.61	1360	1.70
5600	40.11	44.55	1370	1.74

