

Coaxial Bandpass Filter

ECO ZBPF-75-S+

50Ω 0.063 to 0.087 MHz

Features

- Low frequency passband 63 to 87KHz
- Wide stopband Rejection
- Rugged shielded case

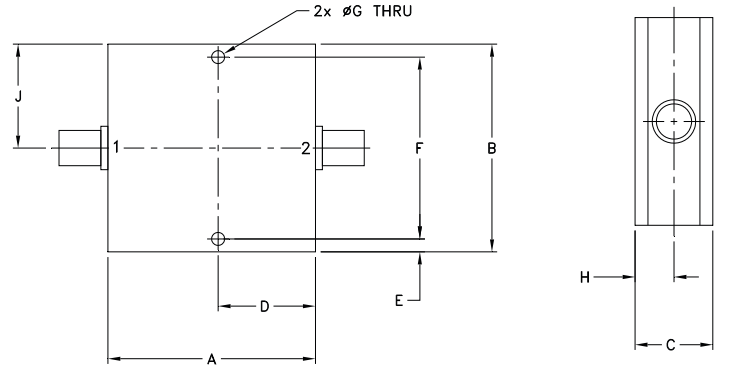
Applications

- Fiber optics network
- Wire line broadband access
- Harmonic and sub-harmonic Rejection
- Transmitters / Receivers
- Lab Use

Coaxial Connections

PORT - 1	SMA female
PORT - 2	SMA female

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F
2.00	2.00	.75	.938	.13	1.
50.80	50.80	19.05	23.83	3.30	75.044
					45
G	H	J			
.1253	.38	1.00			
18	9.65	25.40			
					wt
					grams
					100.0

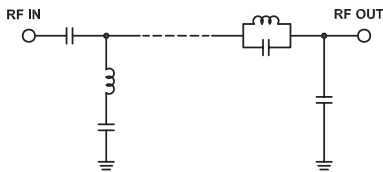
Note: Please refer to case style drawing for details

Maximum Ratings

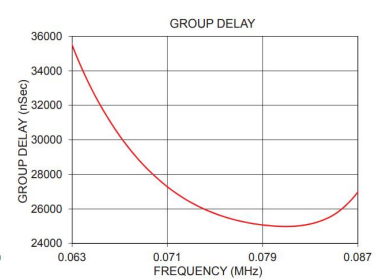
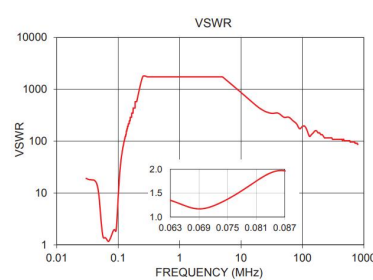
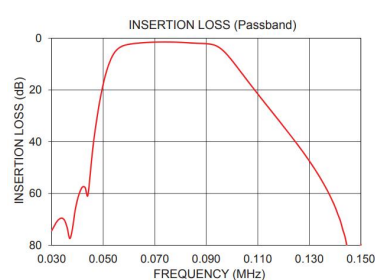
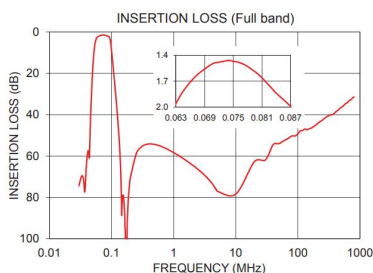
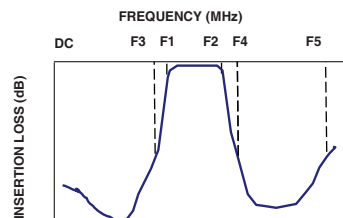
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	+5dBm max.

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

Functional Schematic



Typical Frequency Response



Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	0.075	—	MHz
	Insertion Loss	F1-F2	—	2.4	4.0	dB
	VSWR	F1-F2	—	2.0	2.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	37	—	dB
	VSWR	DC-F3	—	4.2	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	31	—	dB
	VSWR	F4-F5	—	13	—	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
0.030	74.40	19.11	0.063	35498.20
0.040	62.40	17.75	0.064	33868.40
0.045	52.06	14.74	0.065	32469.60
0.048	28.16	9.90	0.066	31281.20
0.051	13.79	4.50	0.067	30233.50
0.054	6.14	2.09	0.068	29330.10
0.056	3.86	1.52	0.069	28543.10
0.059	2.56	1.36	0.070	27868.90
0.063	1.96	1.35	0.072	26790.40
0.075	1.47	1.37	0.074	26018.30
0.087	1.99	1.96	0.075	25732.40
0.095	3.59	2.82	0.076	25495.80
0.098	6.29	5.51	0.078	25167.10
0.106	16.44	24.83	0.079	25067.40
0.120	34.11	78.97	0.080	25006.90
0.125	40.56	102.19	0.081	24979.00
0.150	79.89	217.15	0.082	25015.30
50.000	53.97	289.53	0.083	25122.40
500.000	36.46	102.19	0.085	25663.50
800.000	31.49	86.86	0.087	26970.10