

Coaxial Bandpass Filter



50Ω 69 to 71 MHz

Features

- Good VSWR, 1.2:1 Typ @ Passband
- Excellent Rejection in the Stopband
- Connectorized package



ECO ZFBP-70HR-S+

Applications

- IF Signal Processing
- High Rejection Application
- Wire-Line Broadband Access
- Lab Use

Coaxial Connections

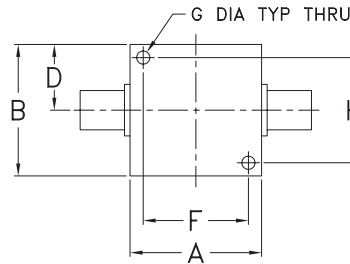
PORT - 1	SMA-FEMALE
PORT - 2	SMA-FEMALE

Outline Dimensions (inch mm)

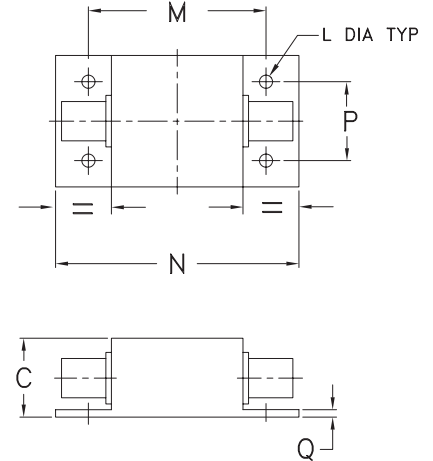
A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.000	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40
J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.750	.06	grams
--	--	3.18	42.88	55.37	19.05	1.52	70.0

Note: Please refer to case style drawing for details

Outline Drawing STANDARD



OPTION "B"



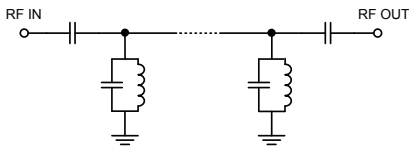
Electrical Specifications at 25°C

Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W at 25°C

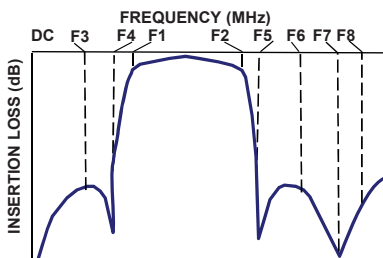
Permanent damage may occur if any of these limits are exceeded.

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	70	-	MHz
	Insertion Loss	F1-F2	-	5.5	7.0	dB
	VSWR	F1-F2	-	1.2	1.35	:1
Stop Band, Lower	Insertion Loss	DC-F3	75	85	-	dB
		F3-F4	20	30	-	dB
	VSWR	DC-F4	-	18	-	:1
Stop Band, Upper	Insertion Loss	F5-F6	20	30	-	dB
		F6-F7	60	70	-	dB
	VSWR	F7-F8	50	60	-	dB
		F5-F8	-	18	-	:1

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
1.0	102.69	17007.26	69.0	232.76
10.0	95.63	7623.21	69.1	228.80
30.0	94.91	2561.53	69.2	225.24
50.0	87.17	521.91	69.3	222.15
64.0	54.64	31.49	69.4	219.43
66.0	30.47	10.34	69.5	217.03
66.7	20.57	5.31	69.6	215.02
67.0	16.25	3.62	69.7	213.21
68.0	7.14	1.18	69.8	211.71
69.0	5.31	1.14	69.9	210.45
70.0	4.89	1.20	70.0	209.54
71.0	5.08	1.10	70.1	208.88
74.0	21.94	7.65	70.2	208.41
75.0	31.62	13.83	70.3	208.09
80.0	67.41	56.77	70.4	207.97
90.0	81.62	163.24	70.5	208.06
100.0	96.57	248.57	70.6	208.55
505.0	89.99	88.51	70.7	209.11
700.0	74.48	73.71	70.8	210.00
1000.0	61.62	62.49	71.0	212.43

