

Coaxial Bandpass Filter

50Ω 410 to 785 MHz

Features

- Broad bandwidth
- Sharper cut-off
- Good VSWR
- Connectorized package

Applications

- Digital television
- Broad band wireless 4G LTE band
- Biomedical telemetry device
- Wireless microphone
- Test equipment

Coaxial Connections

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

Outline Dimensions (inch mm)

A	B	C	D	E
2.300	2.250	.750	2.175	2.125
58.42	57.15	19.05	55.25	53.98

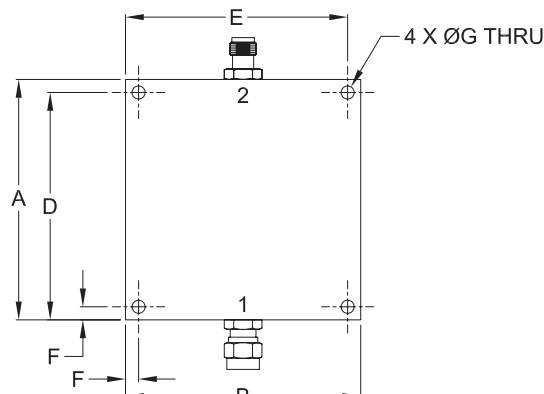
F	G	H	J	wt.
.125	.125	.312	1.125	grams
3.18	3.18	7.93	28.58	124

Note: Please refer to case style drawing for details

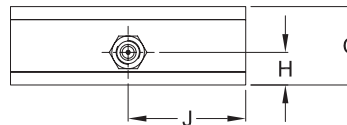
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W max.

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

Outline Drawing



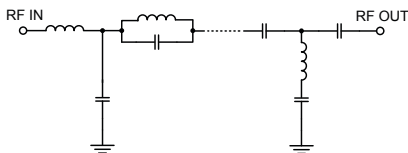
ECO ZABP-598-S+



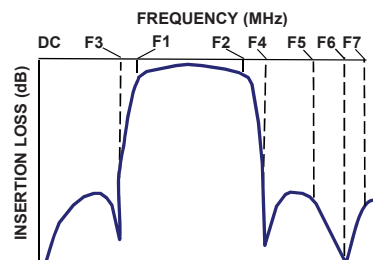
Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	598	-	MHz
	Insertion Loss	F1-F2	-	2.7	4.5	dB
	VSWR	F1-F2	-	1.46	1.92	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	34	-	dB
	VSWR	DC-F3	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	35	-	dB
		F5-F6	40	46	-	dB
	VSWR	F6-F7	-	35	-	dB
		F4-F7	-	20	-	: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	102.62	4921.74	410	15.79
50	72.90	493.06	450	6.71
100	55.00	158.05	475	4.98
385	37.04	12.64	500	4.24
387	29.50	11.35	525	3.83
390	20.23	9.03	550	3.60
404	3.02	1.85	575	3.50
410	2.04	1.37	598	3.50
598	0.76	1.23	600	3.50
785	2.67	1.35	625	3.58
790	3.23	1.40	650	3.74
811	20.21	7.78	675	4.02
817	29.62	10.20	700	4.50
825	43.90	12.81	710	4.78
1000	46.84	44.26	725	5.33
1200	65.43	64.85	750	6.95
1300	70.79	67.80	760	7.78
1400	83.73	67.54	770	8.63
1500	57.84	65.68	780	11.20
1600	45.26	61.65	785	13.24

