

Surface Mount Bandpass Filter



50Ω 1000 to 1800 MHz

Features

- Good VSWR, 1.4:1 typ @ passband
- High rejection
- Shielded case
- Aqueous washable

Applications

- Test equipment
- Radio
- Harmonic rejection
- Transmitters/receivers

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

RF Power Input 1W at 25°C

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

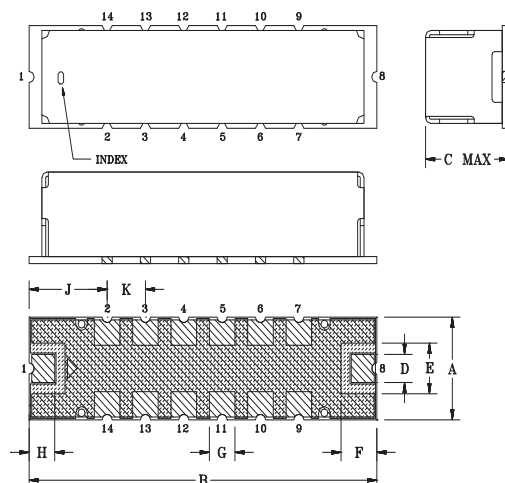
Pin Connections

RF IN 1

RF OUT 8

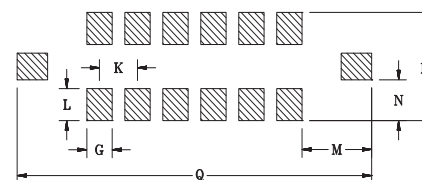
GROUND 2,3,4,5,6,7,9,10,11,12,13,14

Outline Drawing



ECO BPF-A1340+

PCB Land Pattern



Suggested Layout
Tolerance to be within ±.002

METALLIZATION

SOLDER RESIST

Outline Dimensions (Inch)

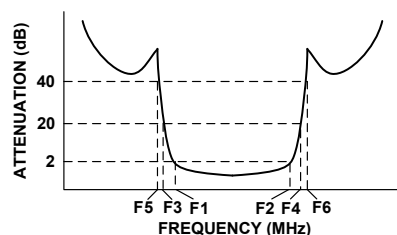
A	B	C	D	E	F	G	H
.365	1.360	.35	.100	.180	.140	.100	.100
9.27	34.54	8.89	2.54	4.57	3.58	2.54	2.54
J	K	L	M	N	P	Q	wt.
.305	.150	.120	.275	.152	.405	1.400	grams
7.75	3.81	3.05	6.99	3.87	10.29	35.56	4.0

Note: Please refer to case style drawing for details

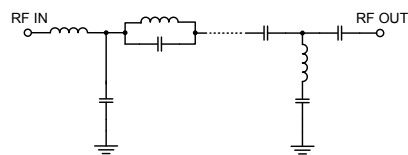
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB F3	Loss 40dB Typ. F4	F5	F6	Passband Typ.	Passband Max.	Stopband Typ.
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
1340	1000 - 1800	800	2300	750	2400 - 4300	1.4	2.0	20

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	88.02	1737.18
50	64.98	868.59
750	49.66	9.23
800	28.71	4.53
820	13.07	4.99
830	7.77	3.78
860	2.18	1.50
1000	1.04	1.38
1200	0.85	1.24
1340	0.84	1.21
1600	1.08	1.42
1800	1.29	1.26
1950	2.88	2.76
2080	7.23	6.42
2140	14.48	13.70
2300	32.45	22.00
2400	42.07	24.48
4300	44.65	21.46

