

Surface Mount Bandpass Filter



ECO SYBP-92+

50Ω 800 to 1000 MHz

Features

- High power handling, 7W
- Small size
- Temperature stable
- Excellent rejection

Applications

- Military radio
- Cellular
- GSM
- ISM

Pin Connections

RF IN	4
RF OUT	6
GROUND	1,2,3,5

Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H
.25	.31	.15	.090	.040	.065	.060	.065
6.35	7.87	3.81	2.29	1.02	1.65	1.52	1.65
J	K	L	N	Q	wt.		
.300	.060	.060	.105	.070	grams		
7.62	1.52	1.52	2.67	1.78	0.50		

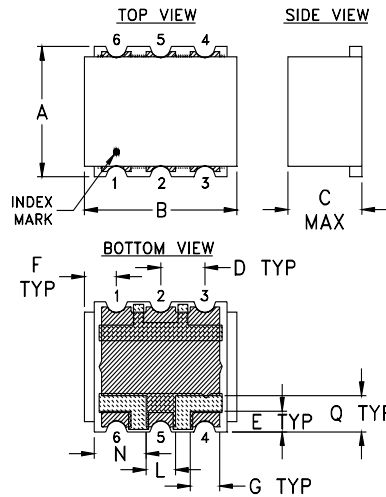
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W* max. at 25°C

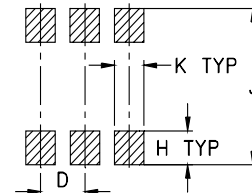
*Passband rating, derate linearly to 3W at 85°C ambient

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

Outline Drawing

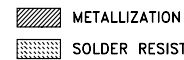


PCB L and Pattern



Suggested Layout,

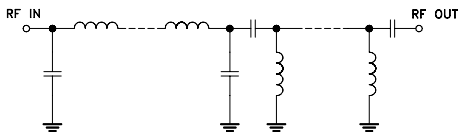
Tolerance to be within ±.002



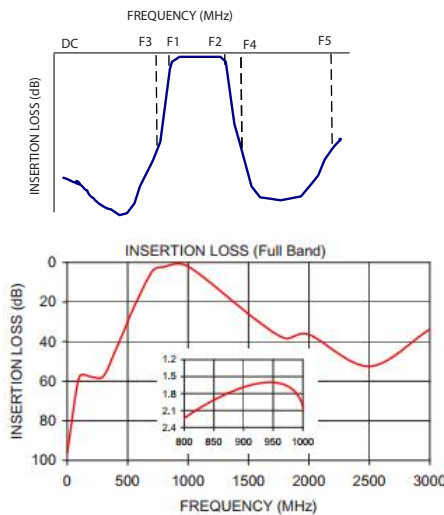
Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	900	—	MHz
	Insertion Loss	F1-F2	—	1.9	2.8	dB
	VSWR	F1-F2	—	1.6	2.1	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	23	—	dB
	VSWR	DC-F3	—	12	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	27	—	dB
	VSWR	F4-F5	—	10	—	:1

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	95.93	3014.56
100.00	57.95	179.36
200.00	57.87	46.52
300.00	57.43	24.06
400.00	44.24	16.44
450.00	37.39	14.52
500.00	30.07	13.16
530.00	25.54	12.43
700.00	4.73	3.24
800.00	2.24	1.64
1000.00	2.02	1.52
1550.00	28.43	7.73
1800.00	38.24	20.47
2000.00	36.48	27.60
2500.00	52.46	33.50
3000.00	33.80	29.13

