

Surface Mount Bandpass Filter



50Ω 1200 to 1600 MHz

Features

- Wide bandwidth
- Rejection upto $2 \times F_c$
- Miniature shielded package

Applications

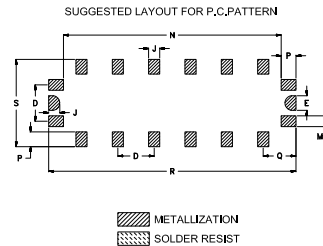
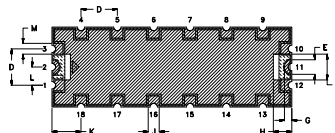
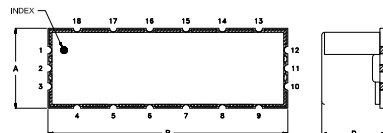
- Radio telescope applications
- Public cellular networks
- International mobile telecommunication
- Weather instruments / Radar / Satellite
- Transmitter / Receivers
- Harmonic rejection / Industrial applications

Maximum Ratings

Operating Temperature -40°C to 85°C
Storage Temperature -55°C to 100°C

RF Power Input 1 W

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



METALLIZATION
SOLDER RESIST



ECO BPF-BD1400+

Outline Dimensions (inch/mm)

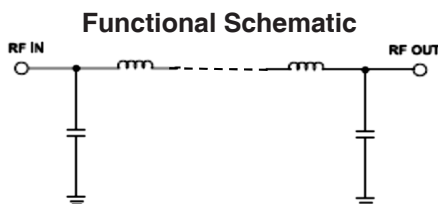
A	B	C	D	E	F	G	H	J	K
.433	1.299	.350	.197	.079	.140	.040	.100	.060	.157
11.00	33.00	8.89	5.00	2.02	3.56	1.02	2.54	1.52	4.00

L	M	N	P	Q	R	S	Wt.
.098	.058	1.179	.080	.177	1.339	.473	grams
2.50	1.48	29.95	2.03	4.51	34.02	12.02	4

Note: Please refer to case style drawing for details

Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	1400	—	MHz
	Insertion Loss	F1-F2	—	1.5	3.0	dB
	VSWR	F1-F2	—	1.67	2.0	:1
Stop Band, Lower	Rejection	DC-F3	40	50	—	dB
		F3-F4	20	25	—	dB
Stop Band, Upper	Rejection	F5-F6	20	25	—	dB
		F6-F7	40	60	—	dB



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	104.35	182.16	1200	4.44
100	81.08	559.87	1220	3.91
700	53.62	80.79	1240	3.61
995	30.09	50.64	1260	3.46
1000	29.48	49.66	1280	3.35
1068	19.96	35.51	1300	3.26
1163	3.07	2.89	1320	3.21
1200	1.26	1.12	1340	3.18
1400	1.16	1.35	1360	3.16
1500	1.21	1.12	1380	3.14
1600	1.62	1.35	1400	3.12
1691	2.95	1.50	1420	3.13
1765	19.94	10.88	1440	3.15
1800	30.21	16.17	1460	3.22
1900	53.51	28.69	1480	3.32
2000	66.66	39.76	1500	3.42
2200	67.22	57.06	1520	3.52
2600	63.63	72.44	1540	3.60
2900	63.19	57.26	1560	3.71
3000	63.61	52.23	1600	4.07

Typical Frequency Response

