

Surface Mount Bandpass Filter



50Ω 700 to 1200 MHz

Features

- Wide bandwidth
- Better rejection
- Miniature shielded package

Applications

- Radio telescope applications
- Aeronautical radio navigation
- Defense systems
- Private and public land mobile

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

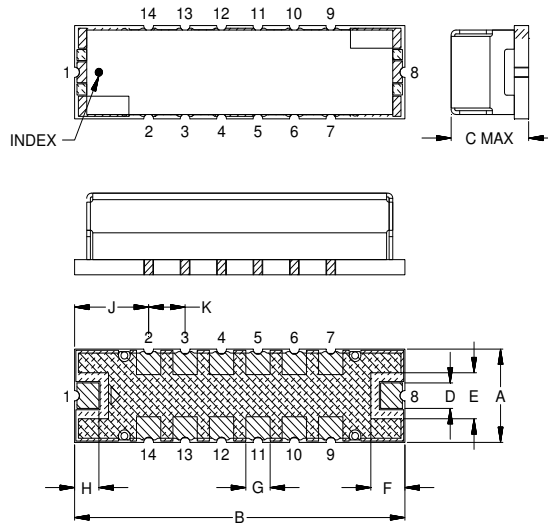
RF Power Input 1 W

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

Pad Connections

INPUT	1
OUTPUT	8
GROUND	2-7,9-14

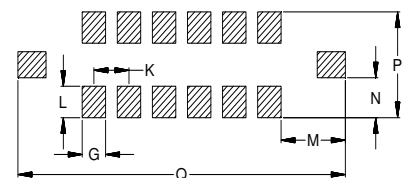
Outline Drawing



ECO BPF-A950+

METALLIZATION
SOLDER RESIST

PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

Outline Dimension

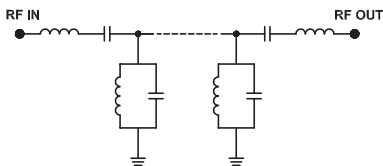
A	B	C	D	E	F	G	H
.365	1.360	.35	.100	.180	.140	.100	.100
9.27	34.54	8.89	2.54	4.57	3.56	2.54	2.54
J	K	L	M	N	P	Q	Wt.
.305	.150	.120	.275	.152	.405	1.400	grams
7.75	3.81	3.05	6.99	3.86	10.29	35.56	4.0

Note: Please refer to case style drawing for details

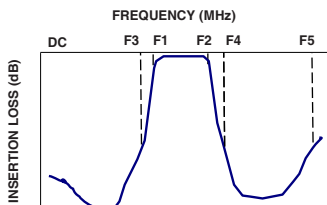
Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	950	—	MHz
	Insertion Loss	F1-F2	—	2.0	4.0	dB
	VSWR	F1-F2	—	1.5	1.9	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	30	—	dB
	VSWR	DC-F3	—	11	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	30	—	dB
	VSWR	F4-F5	—	11	—	:1

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10	105.32	1737.18	700	7.29
450	58.94	86.86	730	5.47
620	30.79	28.96	760	4.31
645	15.97	14.87	790	3.68
660	7.94	6.15	810	3.41
670	4.11	2.87	830	3.21
680	2.26	1.56	850	3.06
700	1.43	1.14	880	2.88
810	0.96	1.14	910	2.77
950	1.04	1.33	930	2.72
1140	1.43	1.24	950	2.69
1200	2.21	1.30	980	2.69
1230	5.35	2.50	1010	2.73
1245	10.85	5.72	1040	2.81
1270	23.00	11.93	1070	2.94
1310	49.59	17.22	1100	3.16
1350	42.70	19.54	1130	3.51
1900	53.32	19.76	1160	4.12
2500	61.18	22.29	1180	4.80
2600	60.54	21.20	1200	5.71

