Surface Mount

Bandpass Filter

50Ω 230 to 370 MHz

Features

- Wide bandwidth
- Very low insertion loss
- Excellent rejection
- Miniature shielded package

Applications

- Civil aircraft communication radio
- Defence Applications
- Surveillance receiver
- Emergency Locator Transponders (ELT)

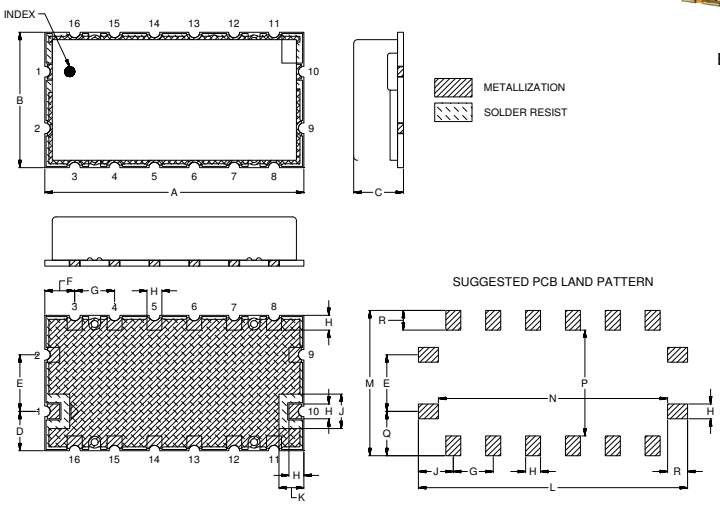
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5 W

Pad Connections

INPUT	1
OUTPUT	10
GROUND	2,3,4,5,6,7,8,9,11,12,13,14,15,16

Outline Drawing



ECO BPF-V300+

Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
1.040	**.550**	**.200**	**.160**	**.230**	**.120**	**.160**	**.060**	**.140**
26.42	13.97	5.08	4.06	5.84	3.05	4.06	1.52	3.56

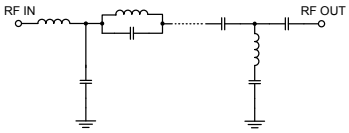
K	L	M	N	P	Q	R	Wt.
.100	**1.080**	**.590**	**.920**	**.430**	**.180**	**.080**	grams
2.54	27.43	14.99	23.37	10.92	4.57	2.03	2

Note: Please refer to case style drawing for details

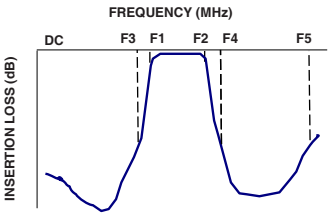
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	—	300	—	MHz
	Insertion Loss	F1-F2	230-370	—	1.1	2.0	dB
	VSWR	F1-F2	230-370	—	1.2	1.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-170	25	37	—	dB
	VSWR	DC-F3	DC-170	—	20	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	440-3000	25	38	—	dB
	VSWR	F4-F5	440-3000	—	20	—	:1

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	68.59	476.18	230	7.29
10	49.51	550.36	240	6.43
100	69.41	44.87	250	5.92
170	44.78	23.43	260	5.54
176	29.58	18.88	270	5.28
180	20.58	14.92	280	5.10
186	10.62	7.85	290	4.99
194	3.01	2.14	295	4.96
230	0.88	1.16	300	4.96
300	0.77	1.17	305	4.97
370	1.10	1.11	310	5.01
395	2.44	1.78	315	5.06
400	3.60	2.34	320	5.13
412	10.51	4.68	330	5.31
420	20.14	6.85	335	5.43
426	31.66	8.90	340	5.57
440	37.47	14.49	345	5.74
1000	47.06	126.08	350	5.94
2000	78.14	49.43	360	6.45
3000	62.75	63.48	370	7.41