

50Ω 1450 to 2450 MHz

Features

- Broad bandwidth
- Sharper cut-off
- Shielded package

Applications

- Digital television
- Broad band wireless 4G LTE band
- Biomedical telemetry device
- Wireless microphone

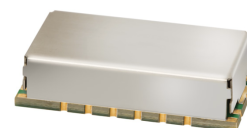
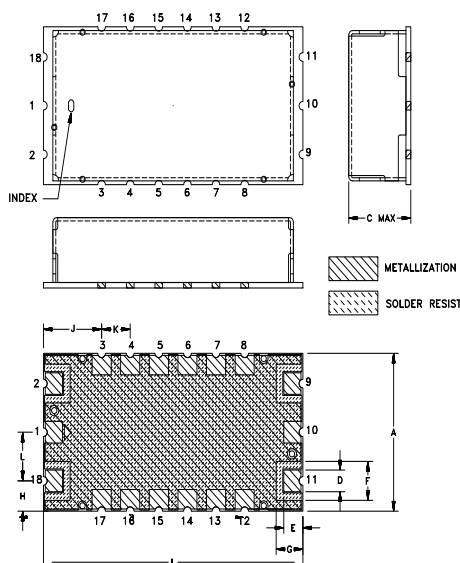
Maximum Ratings

Operating Temperature -40°C to 85°C
 Storage Temperature -55°C to 100°C
 RF Power Input 1 W

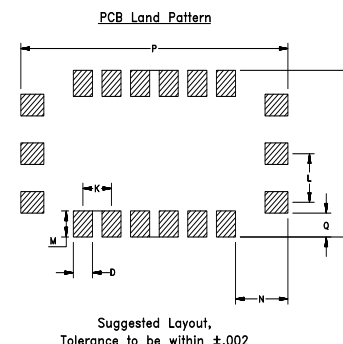
Pad Connections

INPUT	18
OUTPUT	11
GROUND	1,3,4,5,6,7,8,10,12,13,14,15,16,17
NO CONNECTION	2,9

Outline Drawing



ECO BPF-F1950+



Outline Dimensions (inch/mm)

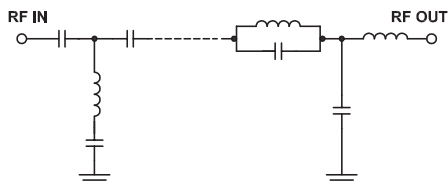
A	B	C	D	E	F	G	H	J
.730	1.360	.350	.100	.100	.180	.140	.140	.305
18.54	34.54	8.89	2.54	2.54	4.57	3.56	3.56	7.75

K	L	M	N	P	Q	R	Wt.
.150	.225	.120	.275	1.400	.110	.770	grams
3.81	5.72	3.05	6.99	35.56	2.79	19.56	6.0

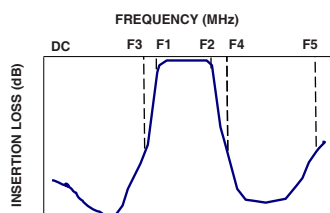
Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	1950	—	MHz
	Insertion Loss	F1-F2	—	2.0	3.0	dB
	VSWR	F1-F2	—	1.5	1.78	:1
Stop Band, Lower	Insertion Loss	DC-F3	30	40	—	dB
	VSWR	DC-F3	—	20	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	30	40	—	dB
	VSWR	F4-F5	—	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	102.28	350.21	1450	3.06
100	88.67	991.99	1500	2.48
500	48.85	255.74	1550	2.18
1100	59.60	65.45	1600	2.02
1200	64.16	48.88	1650	1.90
1265	30.51	29.95	1700	1.79
1295	19.81	18.28	1750	1.71
1325	9.75	6.92	1800	1.67
1355	3.25	1.91	1850	1.65
1450	1.15	1.16	1950	1.64
1950	0.81	1.11	2000	1.63
2450	1.47	1.07	2050	1.63
2560	3.14	1.59	2100	1.64
2605	9.07	5.09	2150	1.69
2650	19.91	12.21	2200	1.75
2685	29.56	16.92	2250	1.82
2750	47.40	22.95	2300	1.92
3000	43.42	24.20	2350	2.03
3500	67.36	22.12	2400	2.23
4000	62.41	47.79	2450	2.53

