

Surface Mount Bandpass Filter

50Ω 410 to 785 MHz

Features

- Broad bandwidth
- Sharper cut-off
- Miniature 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

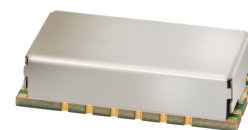
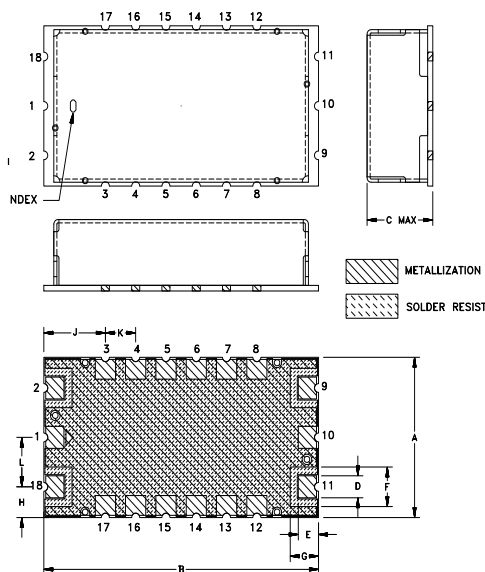
INPUT	2
OUTPUT	11
GROUND	1,3,4,5,6,7,8,10,12,13,14,15,16,17
NO CONNECTION	9,18

Outline Dimensions (inch)

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

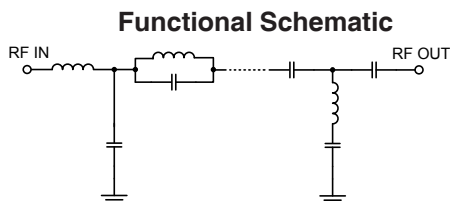
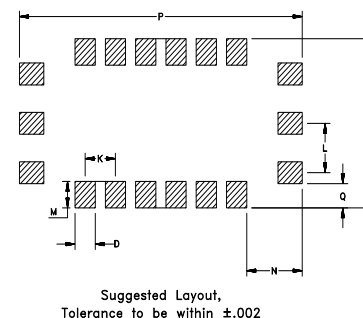
K	L	M	N	P	Q	R	Wt.
.150	.225	.120	.275	1.400	.110	.770	grams
3.81	5.72	3.05	6.99	35.56	2.79	19.56	6.0

Outline Drawing



ECO BPF-F598+

PCB Land Pattern



Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	598	—	MHz
	Insertion Loss	F1-F2	—	2.70	4.50	dB
	VSWR	F1-F2	—	1.46	1.92	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	34	—	dB
	VSWR	DC-F3	—	20	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	35	—	dB
	VSWR	F4-F5	—	20	—	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	102.77	347.44	410	15.16
250	37.70	42.38	414	12.74
315	62.49	38.61	418	10.96
355	37.20	23.49	420	9.75
372	50.61	15.96	430	8.39
385	39.05	9.79	440	6.98
387	31.54	8.68	450	5.89
390	21.83	6.73	460	5.20
394	11.72	3.82	480	4.38
402	3.21	1.20	500	3.87
410	1.99	1.16	598	3.14
598	0.76	1.26	650	3.36
785	2.63	1.18	700	4.04
789	3.04	1.15	720	4.60
806	11.84	3.96	740	5.46
813	20.05	6.39	760	6.93
820	30.25	8.60	770	7.94
825	39.25	9.96	775	8.42
1015	44.24	54.29	780	10.27
1600	48.03	193.02	785	11.95

Typical Frequency Response

