

Surface Mount Bandpass Filter

50Ω 108 to 118 MHz

Features

- Good VSWR, 1.4:1 Typ @ Passband
- High Rejection
- Shielded case
- Aqueous washable

Applications

- Radio communications
- Harmonic Rejection
- Transmitters / Receivers

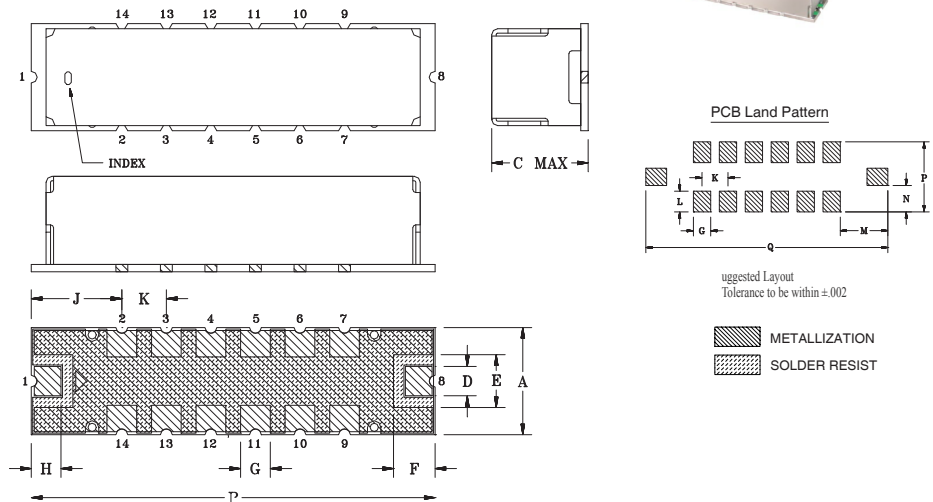
Maximum Ratings

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

Pin Connections

RF IN	1
RF OUT	8
GROUND	2,3,4,5,6,7,9,10,11,12,13,14

Outline Drawing



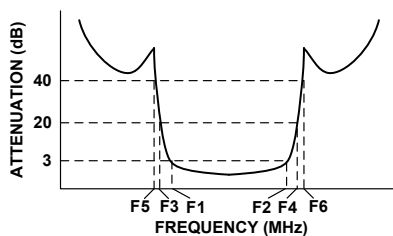
Outline Dimensions (inch/mm)

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

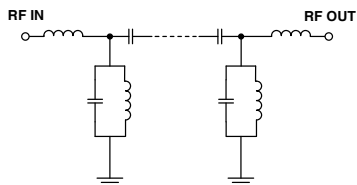
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss > 40dB		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
113	108 - 118	95	140	85	155 - 2000	1.4	1.7	20

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.5	89.49	27.73
85.0	50.72	132.95
95.0	30.61	40.91
102.0	13.09	13.48
105.0	4.55	2.32
108.0	2.19	1.26
110.0	1.96	1.44
113.0	1.87	1.52
115.0	1.85	1.49
118.0	1.93	1.14
120.0	2.10	1.24
125.0	5.58	1.52
127.0	10.42	2.13
130.0	17.67	10.85
140.0	34.45	30.53
155.0	48.83	55.47
500.0	95.86	275.36
2000.0	62.85	66.90

