

Surface Mount Bandpass Filter

50Ω 329 to 335 MHz

Features

- Linear phase, up to ± 5 deg type Fc ± 7.5 MHz
- High rejection
- Shielded case
- Aqueous washable

Applications

- Radio communications
- Harmonic rejection
- Transmitters/receivers

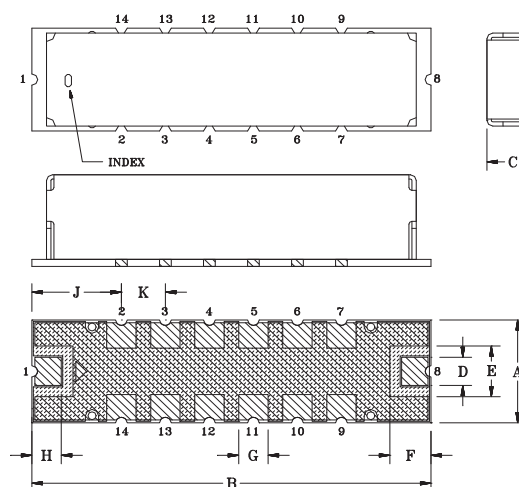
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

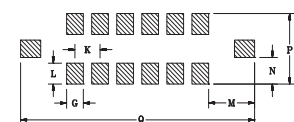
Pin Connections

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

Outline Drawing



PCB Land Pattern



Suggested Layout
Tolerance to be within $\pm .002$

METALLIZATION SOLDER RESIST

Outline Dimensions (inch/mm)

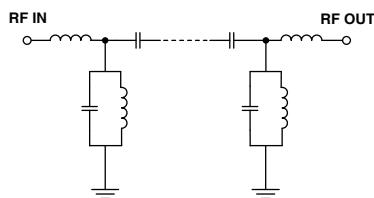
A	B	C	D	E	F	G	H
.365	1.360	.35	.100	.180	.140	.100	.100
9.27	34.54	8.89	2.54	4.57	3.56	2.54	2.54

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

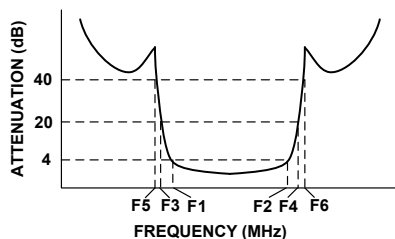
Bandpass Filter Electrical Specifications ($T_{AMB} = 25^\circ\text{C}$)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4dB)	STOPBANDS (MHz)		MAXIMUM DEVIATION FROM LINEAR PHASE (deg.) Fc ± 7.5 MHz	VSWR (:1)	
		Loss > 20dB	Loss > 40dB		Passband	Stopband
Fc	F1 - F2	F3	F4	F5	F6	
332	329 - 335	305	365	290	385 - 2200	

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Deviation from Linear Phase (deg.)
0.5	89.57	98.58	324.5	4.40
250	74.03	180.61	325.5	1.97
290	49.02	116.69	326.5	0.35
305	31.30	46.61	327.5	-0.64
310	24.00	33.56	328.5	-1.25
315	13.85	14.80	329.0	-1.42
319	7.12	3.76	329.5	-1.40
329	3.16	1.58	330.5	-1.50
332	3.01	1.29	331.5	-1.30
335	3.09	1.16	332.0	-1.17
345	6.86	1.73	332.5	-1.02
352	13.84	3.88	333.5	-0.71
355	19.43	8.82	334.5	-0.37
365	32.76	24.52	335.0	-0.27
385	49.98	64.49	335.5	-0.09
500	93.50	164.78	336.5	0.21
2000	61.85	64.67	338.5	1.34
2200	57.21	60.17	339.5	2.25

