

# Low Pass Filter

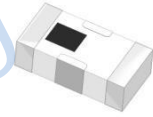
## Features

- excellent power handling
- small size
- 7 sections
- temperature stable
- LTCC construction, and has good moisture resistance, corrosion resistance, high reliability.

## Applications

- harmonic rejection
- VHF/UHF transmitters/receivers
- Base Station of Mobile Communication, lab use.

## HT-LFCN-320+



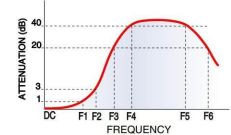
50Ω DC to 320 MHz

### Maximum Ratings

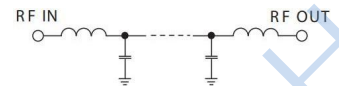
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8.5W max. at 25°C

\* Passband rating, derate linearly to 3.5W at 100°C ambient.  
Permanent damage may occur if any of these limits are exceeded.

### Typical Frequency Response



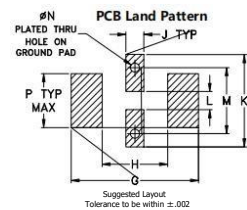
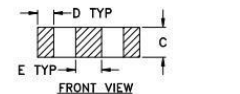
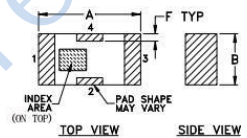
### Electrical Schematic



### Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

### Outline Drawing



### Outline Dimensions: Unit (mm)

A	3.20	B	1.60	C	0.95
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.80	w	0.02g

### Electrical Specifications at 25°C

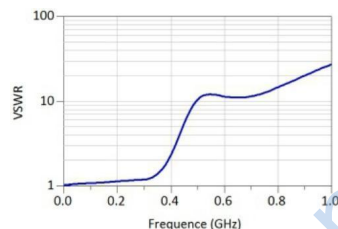
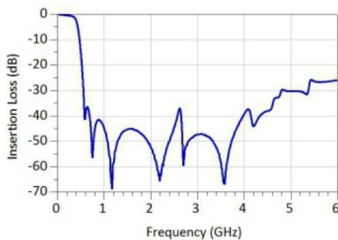
Parameter	F#	Frequency(MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Insertion Loss	DC-F1	DC-320	-	-	1.0	dB
	Freq.Cut-Off	F2	460	-	3.0	-	dB
	VSWR	DC-F1	DC-320	-	1.2	-	:1
Stop Band	Rejection Loss	F3	560	20	-	-	dB
		F4-F5	640-2500	-	40	-	dB
		F6	5300	-	20	-	dB
		F3-F6	560-5300	-	20	-	:1

Measured on Characterization Test Board T-39.

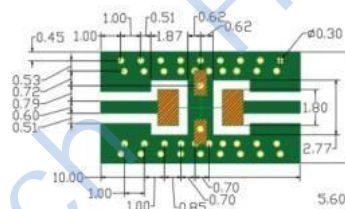
### Typical Performance Data

(TEST CONDITIONS: INPUT POWER = 0dBm @ Temperature = +25°C)

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.01	1.03
100	0.27	1.08
320	0.88	1.23
360	1.33	1.48
460	8.40	6.61
535	23.76	12.05
560	32.26	12.00
580	40.89	11.78
640	36.39	11.07
1100	53.52	34.79
1500	45.41	56.70
2500	44.58	68.77
3500	58.54	81.49
5300	31.15	56.66
6000	26.05	45.83



### Demo Board P/N: T-39 Suggested PCB Layout (PL-137)



- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015".  
COPPER: 1/2 OZ. EACH SIDE.  
FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.  
 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)  
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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