

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.

Electrical Specifications at 25°C

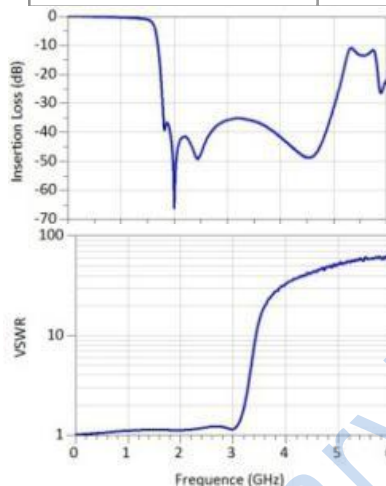
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-2800	-	-	1.2	dB
	Freq.Cut-Off	F2	3230	-	3.0	-	dB
	VSWR	DC-F1	DC-2800	-	1.2	-	:1
Stop Band	Rejection Loss	F3	4000	25	-	-	dB
		F4-F5	4200-7400	-	30	-	dB
	VSWR	F6	9000	-	25	-	dB
		F3-F6	4000-9000	-	20	-	:1

Measured on Fenghua Characterization Test Board T-39.

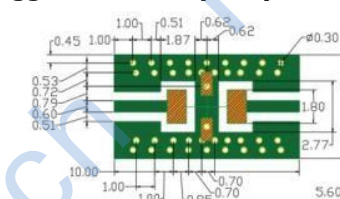
Typical Performance Data

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

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.02	1
500	0.12	1.05
1300	0.24	1.12
2100	0.40	1.12
2800	0.82	1.21
3150	1.89	1.49
3775	37.14	26.51
3900	43.66	30.54
4400	41.49	41.61
5600	37.83	58.97
6400	35.25	58.88
6800	35.69	57.21
7800	40.21	52.07
8400	44.70	49.62
9000	48.60	46.50

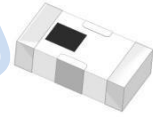


Demo Board P/N: T-39 Suggested PCB Layout (PL-137)



- 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

HT-LFCN-2800+



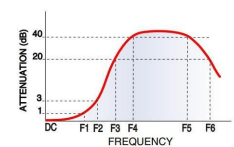
50Ω DC to 2800 MHz

Maximum Ratings

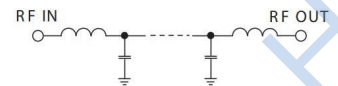
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C

* 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



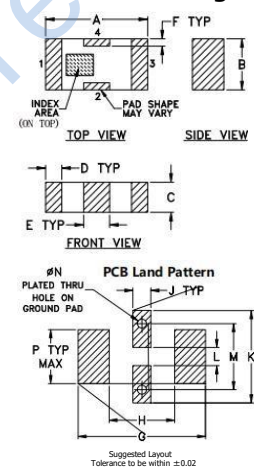
Electrical Schematic



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	Q	0.02g