

Low Pass Filter

LFCN-4400+ LFCN-4400

DC to 4400 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W at 25°C
DC Current Input to Output	0.5A max. at 25°C

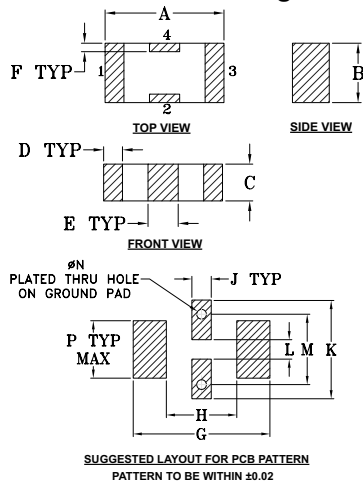
*Passband rating, derate linearly to 3 W at 100°C ambient

Pin Connections

RF IN	1**
RF OUT	3**
GROUND	2, 4

**RF IN & RF OUT can be interchanged

Outline Drawing



TOLERANCE UNLESS OTHERWISE STATED

2 PLACE DECIMALS: ±0.1

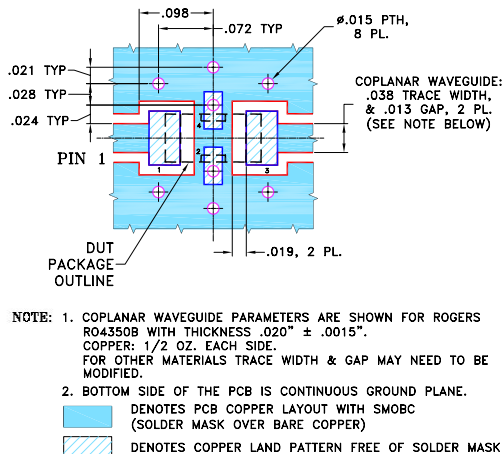
3 PLACE DECIMALS: ±0.05

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



Features

- excellent power handling, 8W
- small size
- 7 sections
- temperature stable
- protected by US Patent 6,943,646

Application

- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use



CASE STYLE: FV1206

Model	Price	Qty.
LFCN-4400+	\$2.99	(10-49)
LFCN-4400	\$2.99	(10-49)
LFCN-4400D+	\$3.49	(10-49)
LFCN-4400D	\$3.49	(10-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

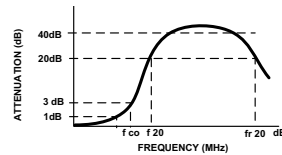
The + suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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

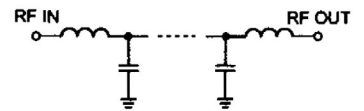
MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	f _{co} , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
			f 20 Min.	30 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
LFCN-4400(+)	DC-4400	5290	6700	6280-9800	13000	17	1.2	7

1. For Applications requiring DC voltage to be applied to the Input or output, use LFCN-4400D (DC Resistance to ground is 100 Mohms min.)

typical frequency response

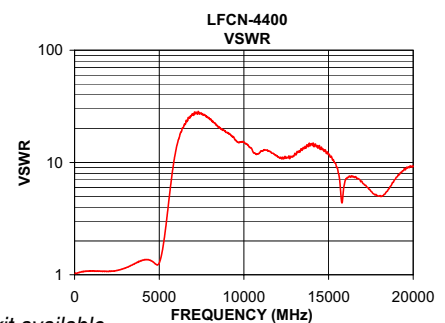
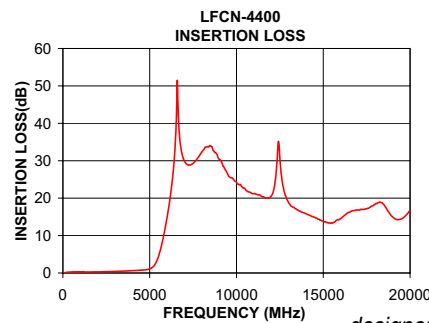


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.05	1.03
320	0.12	1.05
1340	0.25	1.08
3740	0.55	1.29
4400	0.73	1.36
5170	1.37	1.47
5290	2.20	2.06
5580	5.54	4.73
5860	11.25	10.07
6280	23.84	18.70
6700	37.75	24.48
7400	28.99	27.16
9800	25.19	15.26
13000	18.85	11.93
20000	16.70	9.18



designers kit available

Kit No.	No. of Units in Kit	Description	Price \$ per Kit
K5-LFCN+	65	5 of each: LFCN-2000,-2250,-2400,-2500,-2600,-2750,-2850,-3000,-3800,-4400,-5000,-6000,-6700 (RoHS compliant)	129.95

