

Ceramic Low Pass Filter

50Ω DC to 1525 MHz

LFCN-1525+ LFCN-1525



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

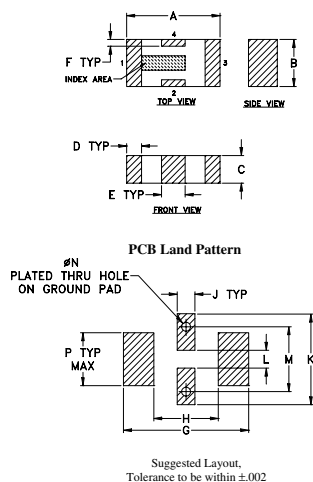
* Passband rating, derate linearly to 3.5W at 100°C ambient.

Pin Connections

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

** RF IN & RF OUT can be interchanged

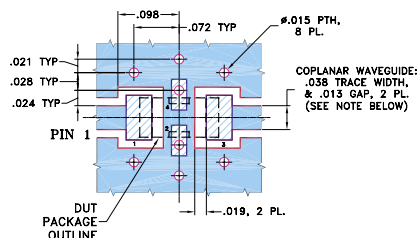
Outline Drawing



Outline Dimensions (inch)

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, 10W
- small size
- 7 sections
- temperature stable
- protected by U.S. Patent 6,943,646

Applications

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

CASE STYLE: FV1206

Model	Price	Qty.
LFCN-1525+	\$2.99	(10-49)
LFCN-1525	\$2.99	(10-49)
LFCN-1525D+	\$3.49	(10-49)
LFCN-1525D	\$3.49	(10-49)

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

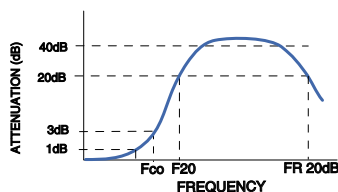
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications¹ (T_{AMB} = 25°C)

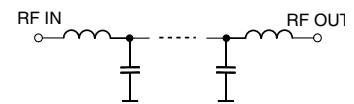
PASSBAND (MHz) (loss < 1 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20	30	FR 20	Stopband	Passband	
		Min.	Typ.	Typ.	Typ.	Typ.	
DC-1525	1750	2040	2120-6600	6700	20	1.2	7

1. For applications requiring DC voltage to be applied to the Input or output, use LFCN-1525D (DC Resistance to ground is 100 Mohms min.)

typical frequency response



electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	0.11	1.04
500.00	0.24	1.05
1000.00	0.42	1.10
1525.00	0.89	1.05
1750.00	2.84	2.25
2000.00	23.74	17.05
2075.00	33.04	20.70
2550.00	36.33	36.97
2750.00	36.09	41.37
3000.00	38.02	45.72
3600.00	43.41	51.10
5000.00	43.57	44.55
6600.00	33.91	25.19
6800.00	27.19	22.00
7000.00	11.63	8.35

