

CERAMIC LOW PASS DC to 6700 MHz

BLUE CELL™



LFCN

NEW!

all specifications at 25°C

MODEL NO.	PASSBAND, MHz	fco, MHz Nom.	STOP BAND, MHz (loss, dB)			VSWR		NO. OF SECTIONS	CASE STYLE	C U M N O - 1 0 2 2 0 C	SCHEMATIC	PRICE \$ Qty. (10-49)
	(loss < 1 dB) Max.	(loss 3 dB) Typ.	f20 Min.	40 Typ.	fr 20 Typ.	Passband Typ.	Stopband Typ.		Note B			
* LFCN-225	DC-225	350	460	510-2500	5500	1.2:1	20:1	7	FV1206	nx	A	2.99
* LFCN-320	DC-320	460	560	640-2500	5300	1.2:1	20:1	7	FV1206	nx	A	2.99
* LFCN-400	DC-400	560	660	680-3000	5500	1.2:1	20:1	7	FV1206	nx	A	2.99
* LFCN-490	DC-490	650	780	880-2500	6000	1.2:1	20:1	7	FV1206	nx	A	2.99
* LFCN-530	DC-530	700	820	945-3000	6000	1.2:1	20:1	7	FV1206	nx	A	2.99
* LFCN-575	DC-575	770	900	1050-3200	5500	1.2:1	20:1	7	FV1206	nx	A	2.99
* LFCN-630	DC-630	830	970	1020-3500	6000	1.2:1	20:1	7	FV1206	nx	A	2.99

see suggested PCB layout (PL-137) for LFCN models

features

- excellent power handling, up to 10W
- small size, .12"x.06"
- temperature stable

applications

- harmonic rejection
- transmitters/receivers

NOTES:

- Hermetically sealed.
- Environmental specifications and re-flow soldering information available in General Information Section.
- Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes see "Case Styles & Outline Drawings".
- Prices and Specifications subject to change without notice.
- Absolute maximum power, voltage and current ratings:
 - RF power input max.:

Model	
LFCN-225,-320,-400,-490,-530,-575,-630	8.5W ^(a)
LFCN-800,-1325,-2000,-2400,-5000,-6000,-6700	9W ^(b)
LFCN-900,-1000,-1200,-1700,-2250	10W ^(a)

 - derate linearly to 3.5W at 100°C
 - derate linearly to 4W at 100°C, except LFCN-5000,-6000,-6700 to 3W at 100°C
 - DC current input to output LFCN-800,-1000,-1325,-2000,-2400 1A max. at 25°C; other models 0.5A max. at 25°C
- Operating temperature, -55°C to 100°C

pin connections

see case style outline drawings

PORT	nx
INPUT	1 ^
OUTPUT	3 ^
GND	2,4,
DEMO BOARD	TB-270

^ RF IN & RF OUT can be interchanged

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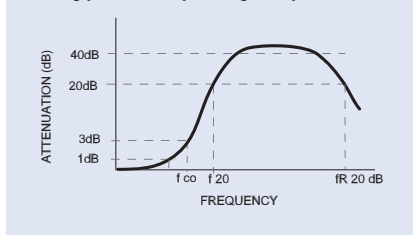
all specifications at 25°C

MODEL NO.	PASSBAND, MHz	fco, MHz Nom.	STOP BAND, MHz (loss, dB)			VSWR		NO. OF SECTIONS	CASE STYLE	NO. OF CONNECTIONS	SCHEMATIC	PRICE \$ Qty. (10-49)
	(loss < 1 dB†) Max.	(loss 3 dB) Typ.	f20 Min.	30 Typ.	fr 20 Typ.	Passband Typ.	Stopband Typ.		Note B			
* LFCN-800	DC-800	990	1400	1500-2000	4500	1.2:1	20:1	5	FV1206	nx	B	1.99
* LFCN-900	DC-900	1075	1275	1350-5000	5300	1.2:1	20:1	7	FV1206	nx	A	1.99
* LFCN-1000	DC-1000	1300	1550	1900-5000	5500	1.3:1	20:1	7	FV1206	nx	B	1.99
* LFCN-1200	DC-1200	1530	1800	2000-5000	6200	1.2:1	20:1	7	FV1206	nx	A	1.99
* LFCN-1325	DC-1325	1560	2100	2200-2600	4250	1.4:1	20:1	5	FV1206	nx	B	1.99
* LFCN-1700	DC-1700	2050	2375	2500-6500	7000	1.2:1	20:1	7	FV1206	nx	A	1.99
* LFCN-2000	DC-2000	2275	3000	3100-3500	4600	1.3:1	20:1	5	FV1206	nx	B	1.99
* LFCN-2250	DC-2250	2575	2850	2950-5000	7200	1.2:1	20:1	7	FV1206	nx	A	1.99
* LFCN-2400	DC-2400	2800	3600	3700-4000	5000	1.2:1	20:1	5	FV1206	nx	B	1.99
* LFCN-5000	DC-5000	5580	6600	6800-11000	18000	1.2:1	20:1	7	FV1206	nx	B	1.99
* LFCN-6000	DC-6000	6800	8300	8500-12000	18000	1.3:1	20:1	7	FV1206	nx	B	1.99
* LFCN-6700	DC-6700	7600	8900	9500-12000	18000	1.3:1	20:1	7	FV1206	nx	B	1.99

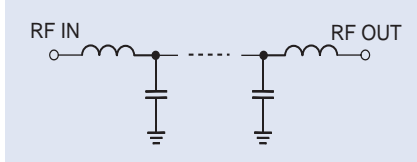
† <1.3 B for LFCN-800,-900,-1325
<1.5 B for LFCN-2000,-2400

see suggested PCB layout (PL-137) for LFCN models

typical frequency response



LFCN schematic A



LFCN schematic B

