Ceramic Low Pass Filter

50Ω

DC to 3000 MHz

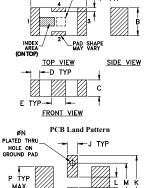
Maximum Ratings

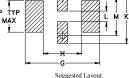
Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C		
RF Power Input*	10W max. at 25°C		
Max. DC Voltage at pins 1&3	25 VDC		
DC Current Input to Output	0.5A max. at 25°C		

* Derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4



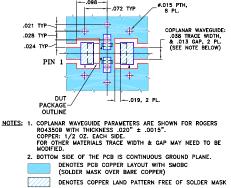


Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

	G	F	E	D	С	В	Α
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23	0.81	0.51	0.94	1.60	3.20
wt	P	N	M	L	K	J	н
grams	.071	.012	.087	.024	.122	.024	.087
.020	1.80	0.30	2.21	0.61	3.10	0.61	2.21

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



Notes

Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

harmonic rejection

- VHF/UHF transmitters/receivers
- lab use

LFCN-3000D+



Generic photo used for illustration purposes only CASE STYLE: FV1206

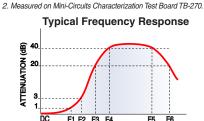
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Electrical Specifications^{1,2} at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-3000	_	—	1.2	dB
Pass Band	Freq. Cut-Off	F2	3500	—	3.0	—	dB
	VSWR	DC-F1	DC-3000	—	1.2	—	:1
Stop Band	Rejection Loss	F3	4550	20	—	—	dB
		F4-F5	4780-7500	—	30	—	dB
		F6	10000	—	20	—	dB
	VSWR	F3-F6	4550-10000	—	20	—	:1

1. DC Resistance to ground is 100 Mohms min.

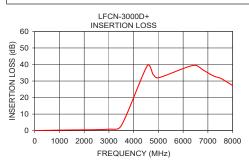


Electrical Schematic



F1 P2 P3 F4 F5 F6 FREQUENCY Typical Performance Data at 25°C

Typical Foriormanoo Bata at 20 0					
Insertion Loss (dB)	VSWR (:1)				
0.04	1.01 1.02				
0.29	1.10				
0.86	1.25				
3.01	3.33				
39.19	14.83				
34.14	12.07				
31.96	10.97				
39.40	21.31				
36.70	19.16				
33.25	21.31				
31.75	21.77				
30.97	21.50				
23.58	16.99				
22.85	16.83				
	(dB) 0.04 0.06 0.29 0.86 3.01 39.19 34.14 31.96 39.40 36.70 33.25 31.75 30.97 23.58				



LFCN-3000D+ VSWR 100 100 100 100 100 1000 2000 3000 4000 5000 6000 7000 8000 FREQUENCY (MHz)

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