Low Pass Filter

LFCN-2400D-1+

DC to 2400 MHz 50Ω

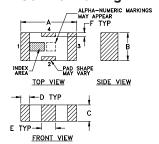
Maximum Ratings

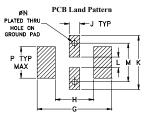
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
DC Current Input to Output	0.5A max_at 25°C

Pin Connections

RF IN	1_
RF OUT	3
GROUND	2,4

Outline Drawing



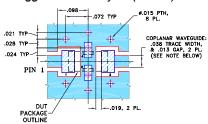


Suggested Layout Tolerance to be within ±.002

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	Р	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)



COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS ROJA550B WITH THICKNESS .020" ± .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

Features

- · excellent power handling, 9W
- small size 5 sections
- temperature stable
- LTCC construction

Applications

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

CASE STYLE: FV1206 PRICE: \$2.49 ea. QTY (20)

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

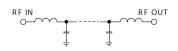
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

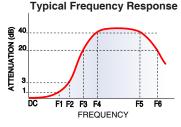
Electrical Specifications¹ at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-2400	_	_	1.5	dB
Pass Band	Freq. Cut-Off	F2	2800	_	3.0	_	dB
	VSWR	DC-F1	DC-2400	_	1.2	_	:1
		F3	3600	20	_	_	dB
Stop Band	Rejection Loss	F4-F5	3700-4000	_	30	_	dB
Stop Band		F6	5000	_	20	_	dB
	VSWR	F3-F6	3600-5000	_	20	_	:1

1. DC Resistance to ground is 100 Mohms min.

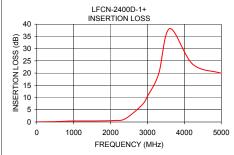
Electrical Schematic

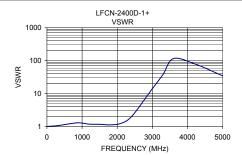




Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
10.00	0.03	1.01		
308.75	0.10	1.07		
607.50	0.20	1.20		
906.25	0.39	1.31		
1205.00	0.41	1.19		
1503.75	0.41	1.17		
1802.50	0.46	1.13		
2101.25	0.62	1.25		
2400.00	1.34	1.97		
2850.00	6.94	8.51		
3000.00	10.53	14.15		
3300.00	19.58	37.77		
3600.00	38.18	115.81		
4222.22	23.66	78.97		
5000.00	19.90	34.75		





For detailed performance specs

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com IF/RF MICROWAVE COMPONENTS

^{*} Derate linearly to 4W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.