Low Pass Filter

DC⁽¹⁾ to 6400 MHz 50Ω

Maximum Ratings

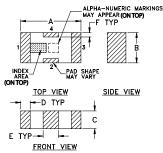
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W max. at 25°C

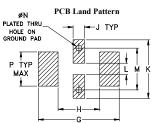
Passband rating, derate linearly to 3W at 100°C ambient.

Pin Connections

RF IN	11_
RF OUT	3
GROUND	2,4

Outline Drawing



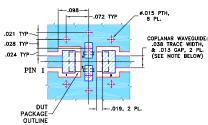


Suggested Layout Tolerance to be within ±.002

Outline Dimensions (inch)

В	С	D	E	F	G	
.063	.037	.020	.032	.009	.169	
1.60	0.94	0.51	0.81	0.23	4.29	
J	K	L	M	N	Р	wt
.024	.122	.024	.087	.012	.071	grams
	.063 1.60	.063 .037 1.60 0.94 J K	.063 .037 .020 1.60 0.94 0.51 J K L	.063 .037 .020 .032 1.60 0.94 0.51 0.81 J K L M	.063 .037 .020 .032 .009 1.60 0.94 0.51 0.81 0.23 J K L M N	.063 .037 .020 .032 .009 .169 1.60 0.94 0.51 0.81 0.23 4.29 J K L M N P

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



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B 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, 8W
- small size
- 7 sections
- temperature stable
- hermetically sealed
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

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

Available Tape and Reel at no extra cost

Devices/Reel 20, 50, 100, 200, 500,1000, 3000

LFCN-6400+

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

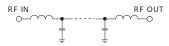
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-6400	_	_	2.0	dB
Pass Band	Freq. Cut-Off	F2	7200	_	3.0	_	dB
	VSWR	DC-F1	DC-6400	_	1.2	_	:1
		F4	8300	20	_	_	dB
Stop Band	Rejection Loss	F3-F5	7770-10200	_	30	_	dB
Stop Ballu		F5-F6	10200-12500	_	20	_	dB
	VSWR	F4-F6	8300-12500	_	17	_	:1
(1) In Applications		F4-F6		—	17	Alternatively if	:1

(1) In Applications where DC isolation to ground is required, coupling capacitors are recommended to avoid DC leakage. Alternatively, if DC pass IN-OUT is required, Mini-Circuits' "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground. (2) Measured on Mini-Circuits Characterization Test Board TB-270.

Typical Frequency Response **9** 30 ATTENUATION

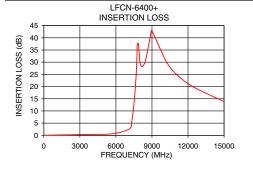
F1 F2 F3 F4

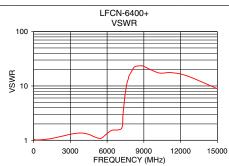
Electrical Schematic



Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR
(MHz)	(dB)	(:1)
40	0.02	1.04
500	0.07	1.02
2000	0.20	1.14
4000	0.40	1.36
5500	0.55	1.09
6400	1.25	1.53
7000	1.76	1.10
7200	3.12	1.81
7350	6.62	3.90
7500	12.86	7.76
7680	24.39	12.35
7770	35.48	14.62
8300	28.71	22.29
10200	30.17	16.89
11000	25.43	17.75
12500	19.72	15.39
15000	13.80	8.90





- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Ferms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Signal Conditioning category:

Click to view products by Mini-Circuits manufacturer:

Other Similar products are found below:

MAPDCC0001 MAPDCC0004 PD0409J5050S2HF 880157 HHS-109-PIN DC1417J5005AHF AFS14A30-2185.00-T3 AFS14A35-1591.50-T3 DS-323-PIN B39321R801H210 1A0220-3 JP510S LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 FM-104-PIN CER0813B MAPDCC0005 3A325 40287 41180 ATB3225-75032NCT BD0810N50100AHF BD2425J50200AHF C5060J5003AHF JHS-115-PIN JP503AS DC0710J5005AHF DC2327J5005AHF DC3338J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787 X3C19F1-20S XC3500P-20S 10013-20 SF2194E CDBLB455KCAX39-B0 TGL2208-SM, EVAL RF1353C PD0922J5050D2HF 1E1305-3 1G1304-30 B0922J7575AHF 2020-6622-20 TP-102-PIN TP-103-PIN BD1222J50200AHF