Low Pass Filter

DC to 630 MHz 50Q

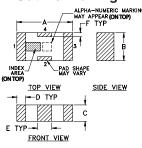
Maximum Ratings

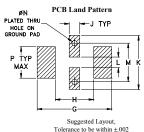
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8.5W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
DC Current Input to Output	0.5A max, at 25°C

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

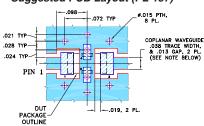




Outline Dimensions (inch)

Α	В	С	D	Е	F	G	
.126	.063	.037	.020	.032	.009	.169	
3.20	1.60	0.94	0.51	0.81	0.23	4.29	
Н	J	K	L	М	N	Р	wt
H .087	J .024	K .122	.024	M .087		P .071	wt grams

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, 8.5W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers

LFCN-630D+



+RoHS Compliant

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

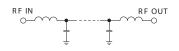


Electrical Specifications^{1,2} at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-630	_	_	1.0	dB
Pass Band	Freq. Cut-Off	F2	830	_	3.0	_	dB
	VSWR	DC-F1	DC-630	_	1.2	_	:1
		F3	1020	20	_	_	dB
Stop Band	Rejection Loss	F4-F5	1050-3500	_	40	_	dB
		F6	6000	_	20	_	dB
	VSWR	F3-F6	1020-6000	_	20	_	:1

- (1) DC Resistance to ground is 100 Mohms min.
- (2) Measured on Mini-Circuits Characterization Test Board TB-270. Typical Frequency Response

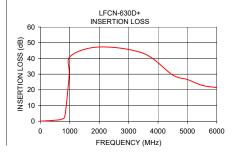
Electrical Schematic

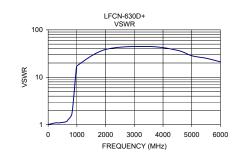


9 ATTENUATION F1 F2 F3 F4 **FREQUENCY**

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.05	1.01
100.00	0.18	1.04
250.00	0.33	1.09
400.00	0.48	1.10
630.00	0.88	1.16
700.00	1.16	1.29
830.00	2.99	1.73
980.00	29.14	15.39
1020.00	41.38	17.75
2000.00	47.29	38.61
3500.00	43.24	44.55
4500.00	29.47	36.97
5000.00	26.58	28.49
5500.00	22.87	25.19
6000.00	21.45	21.20





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-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); 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_isp

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

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