Low Pass Filter

DC to 2600 MHz 50Q

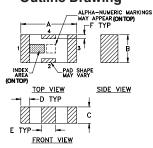
Maximum Ratings

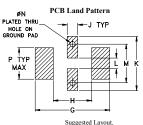
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
DC Current Input to Output	0.5A max. at 25°C

Pin Connections

RF IN	1_
RF OUT	3
GROUND	2,4

Outline Drawing



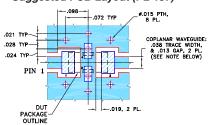


Outline Dimensions (inch)

		,					
	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

Tolerance to be within + 002

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



COPLANAR WAYEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 0Z. 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

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.jsp

LFCN-2600D+



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



Applications

Features

small size

7 sections

harmonic rejection

• temperature stable LTCC construction

VHF/UHF transmitters/receivers

• protected by U.S. Patent 6,943,646

· excellent power handling, 10W

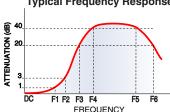
• lab use

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

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-2600	_	_	1.2	dB
Pass Band	Freq. Cut-Off	F2	3025	_	3.0	_	dB
	VSWR	DC-F1	DC-2600	_	1.2	_	:1
Stop Band		F3	3750	20	_	_	dB
	Rejection Loss	F4-F5	3900-6600	_	30	_	dB
		F6	8400	_	20	_	dB
	VSWR	F3-F6	3750-8400	_	20	_	:1

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

Typical Frequency Response

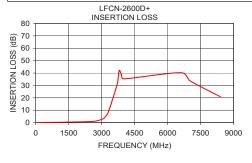


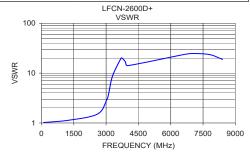
Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
100.00	0.09	1.02		
1300.00	0.35	1.14		
2600.00	1.00	1.51		
3025.00	2.75	2.88		
3125.00	4.05	4.01		
3300.00	8.39	8.78		
3700.00	30.55	20.11		
3750.00	35.82	19.66		
3800.00	42.25	18.86		
3900.00	38.68	16.67		
4000.00	35.30	14.09		
6600.00	40.27	23.50		
7000.00	33.94	24.63		
7800.00	26.30	23.53		
8400.00	20.91	18.78		





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

Mouser Electronics

Authorized Distributor

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