

FEATURES

- Excellent power handling, 8.5W
- Small size
- 7 sections
- Temperature stable
- LTCC construction
- Protected by U.S Patent 6,943,646



LFCN-80

Generic photo used for illustration purposes only

CASE STYLE: FV1206

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

APPLICATIONS

- Harmonic rejection
- VHF/UHF transmitters/receivers

ELECTRICAL SPECIFICATIONS^{1,2} AT 25°C

Pa	arameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Units
Passband	Insertion Loss	DC-F1	DC-80	—	—	1.0	dB
	Freq. Cut-Off	F2	145	—	3.0	_	dB
	VSWR	DC-F1	DC-80	—	1.2	_	:1
Stop Band		F3	200	20	_	_	
	Rejection Loss	F4-F5	225-1550	—	40	_	dB
		F6	4500	_	20	_	
	VSWR	F3-F6	200-4500	_	20	_	:1

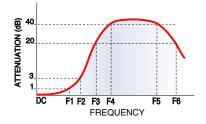
In Application where DC voltage is present at either input or output ports, coupling capacitors are required.
Measured on Mini-Circuits Characterization Test Board TB-270.

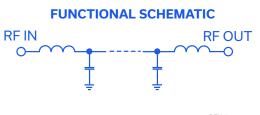
MAXIMUM RATINGS

Parameter	Ratings		
Operating temperature	-55°C to 100°C		
Storage temperature	-55°C to 100°C		
RF Power Input ³	8.5 W max. at 25°C		

3. Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

TYPICAL FREQUENCY RESPONSE





REV. L ECO-023234 LFCN-80 MCL NY 241010

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LFCN-80

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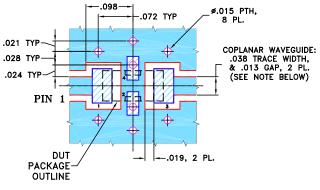
DC¹ to 80 MHz

PIN CONNECTIONS

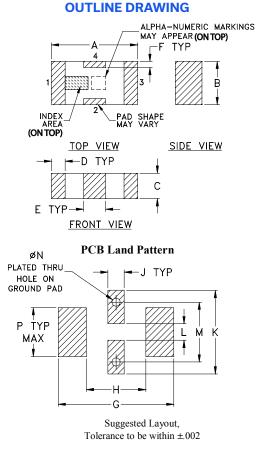
RF IN	1		
RF OUT	3		
GROUND	2,4		

PRODUCT MARKING: MR





- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS R04350B WITH THICKNESS .020" \pm .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



OUTLINE DIMENSIONS (Inches)

	G .169 4.29	.009	E .032 0.81	D .020 0.51	C .037 0.94	B .063 1.60	A .126 3.20
wt grams .020		.012	M .087 2.21	.024	K .122 3.10	.024	H .087 2.21

TAPE & REEL INFORMATION: F71

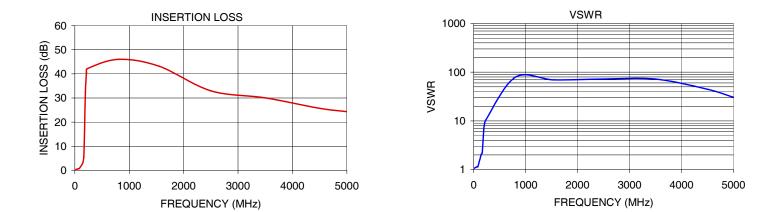




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TYPICAL PERFORMANCE DATA AT 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.22	1.05
50.00	0.55	1.12
70.00	0.71	1.14
80.00	0.80	1.14
145.00	2.99	2.04
165.00	5.76	2.22
195.00	32.37	6.86
215.00	40.63	9.23
230.00	42.19	10.31
800.00	46.02	78.97
1550.00	43.17	69.49
2500.00	32.98	72.39
3500.00	30.05	72.39
4500.00	25.72	44.55
5000.00	24.34	30.49



NOTES

- 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/terms/viewterm.html

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