Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 2800 MHz

Maximum Ratings

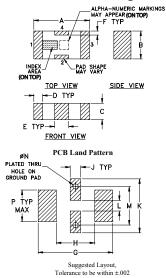
-55°C to 100°C
-55°C to 100°C
10W max. at 25°C

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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

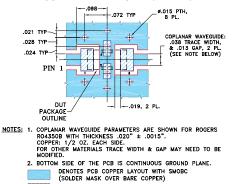
Outline Drawing



Outline Dimensions (inch)

А	В	С	D	E	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	P	wt	
.087	.024	.122	.024	.087	.012	.071	grams	
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020	

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



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

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

LFCN-2850+ LFCN-2850



CASE STYLE: FV1206 PRICE: \$1.99 ea. QTY (20)

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

 Available Tape and Reel at no extra cost

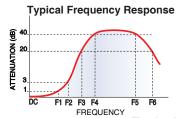
 Reel Size
 Devices/Reel

 7"
 20, 50, 100, 200, 500, 1000, 3000

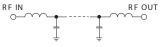
Electrical Specifications^(1,2) at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-2800	_	—	1.5	dB
	Freq. Cut-Off	F2	3300	—	3.0	—	dB
	VSWR	DC-F1	DC-2800	-	1.2	—	:1
Stop Band		F3	4000	20	—	—	dB
	Rejection Loss	F4-F5	4200-7400	—	30	—	dB
		F6	9000	—	20	—	dB
	VSWR	F3-F6	4000-9000	-	20	—	:1

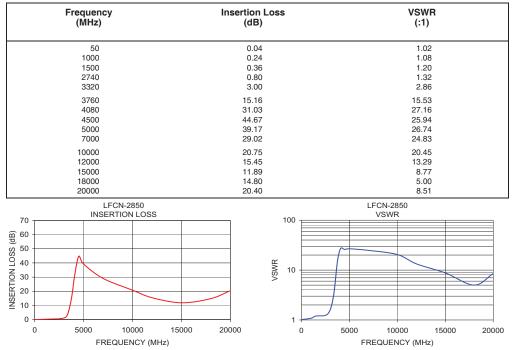
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, if DC pass IN-OUT is required, Mini-Circuits' "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground.
 (2) Measured on Mini-Circuits Characterization Test Board TB-270.



Electrical Schematic



Typical Performance Data at 25°C



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-Circuit's standard limited warranty and terms and conditions (collective), "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 meredies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

