Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 5850 MHz

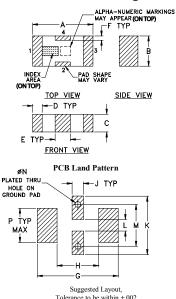
Maximum Ratings

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. Permanent damage may occur if any of these limits are exceeded.					

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

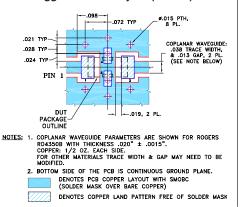
Outline Drawing



Outline Dimensions (inch)

	IIIIII /							
	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	P	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	

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



Features

- excellent power handling, 8W
- small size
- 7 sections
- temperature stable
- hermetically sealed
- LTCC construction
- protected by U.S. Patent 6,943,646

Ela

Applications

harmonic rejection

VHF/UHF transmitters/receivers

LFCN-5850+



CASE STYLE: FV1206

+RoHS Compliant

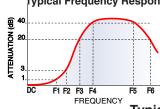
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



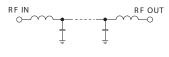
• lab use Electrical Specifications ⁽¹⁾ at 25°C							
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-5850	—	_	2	dB
Pass Band	Freq. Cut-Off	F2	6540	—	3.0	-	dB
	VSWR	DC-F1	DC-5850	—	1.3	_	:1
Stop Band		F3	7600	20	—	_	dB
	Rejection Loss	F4-F5	7100-9900	—	30	_	dB
		F5-F6	9900-12500	—	20	_	dB
	VSWR	F3-F6	7600-12500	—	17	—	:1

atrical Cracifications(12) at 05°C

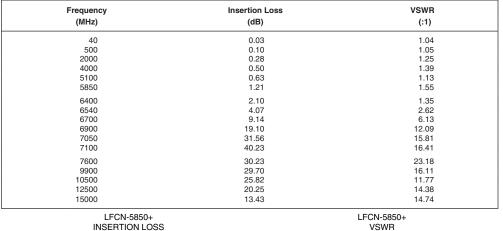
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, if DC pass IN-OUT is required, Mini-Circuits' "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground. (2) Measured on Mini-Circuits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



Electrical Schematic



Typical Performance Data at 25°C





100 HWSV 10 0 3000 9000 12000 15000 6000 FREQUENCY (MHz)

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 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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