Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 180 MHz

Maximum Ratings

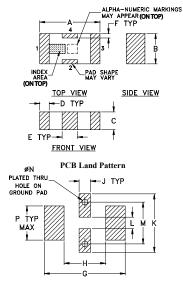
Operating Temperature	-55°C to 100°C				
Storage Temperature	-55°C to 100°C				
RF Power Input* 8W max. at 25°C					
* Passband rating, derate linearly to 3W at 100°C ambient.					

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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

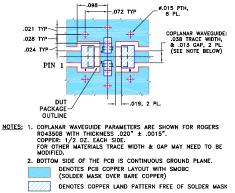


Suggested Layout, Tolerance to be within ±.002

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
w	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)



Notes

• excellent power handling, 8W

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

Applications

harmonic rejection

VHF/UHF transmitters/receivers
lab use



Generic photo used for Illustration purposes only

CASE STYLE: FV1206

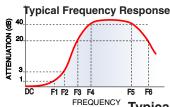
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



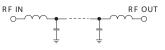
Electrical Specifications^(1,2) at 25°C

•							
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-180	—	_	1.0	dB
Pass Band	Freq. Cut-Off	F2	270	—	3.0	_	dB
	VSWR	DC-F1	DC-180	—	1.2	_	:1
		F3-F4	370-525	20	—	_	dB
Stop Band	Rejection Loss	F4-F5	525-2350	—	40	_	dB
Stop Ballu		F5-F6	2350-6400	—	20	_	dB
	VSWR	F3-F6	370-6400	_	17	_	: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.

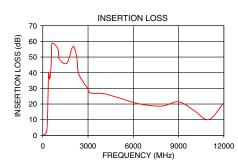


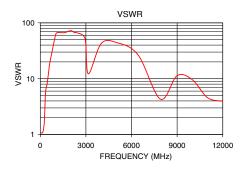
Electrical Schematic



Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR
(MHz)	(dB)	(:1)
40	0.29	1.08
100	0.47	1.08
180	0.85	1.14
235	1.55	1.39
270	3.15	1.82
300	7.47	2.89
325	14.93	4.47
350	25.55	5.79
370	35.04	6.37
525	40.41	11.85
950	64.01	54.29
1700	47.93	69.49
2350	42.01	64.35
4500	25.94	28.49
6400	20.10	27.16
8500	33.14	8.12
12000	20.84	3.93





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 REV. G M158161 LFCN-180+ EDR-7071/1 EDR-8231 RAV 160922 Page 1 of 1

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