Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 120 MHz

Maximum Ratings

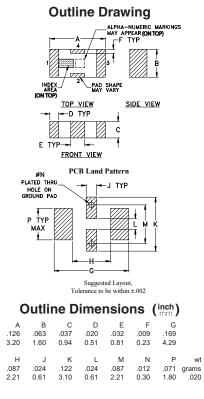
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	8.5W max. at 25°C			
* Passband rating, derate linearly to 3.5W at 100°C ambient.				

Permanent damage may occur if any of these limits are exceeded

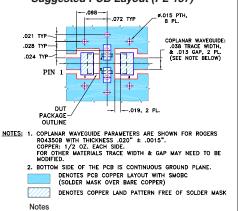
Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Product Marking: BS



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



Features

- excellent power handling, 8.5W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection VHF/UHF transmitters/receivers





Generic photo used for illustration purposes only CASE STYLE: FV1206

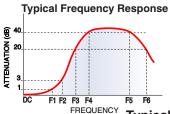
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



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

· · · · · · · · · · · · · · · · · · ·							
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-120	_	_	1.0	dB
Pass Band	Freq. Cut-Off	F2	195	—	3.0	_	dB
	VSWR	DC-F1	DC-120		1.2	_	:1
Stop Band		F3	280	20	_	—	dB
	Rejection Loss	F4-F5	300-1850	—	40	_	dB
		F6	4750	_	20	_	dB
	VSWR	F3-F6	280-4750	_	20	_	:1

(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. (2) Measured on Mini-Circuits Characterization Test Board TB-270.

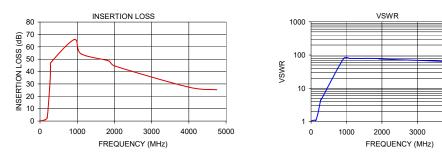




Electrical Schematic

Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR			
(MHz)	(dB)	(:1)			
1.00	0.13	1.04			
100.00	0.68	1.10			
120.00	0.83	1.08			
135.00	0.96	1.08			
195.00	2.89	1.73			
270.00	32.22	4.45			
280.00	41.07	4.55			
285.00	44.02	4.61			
300.00	47.56	4.86			
920.00	65.79	78.97			
1100.00	54.38	78.97			
1850.00	48.59	78.97			
2000.00	44.58	75.53			
4000.00	27.36	62.05			
4750.00	25.27	48.26			



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

REV. K M158161 LFCN-120+ ED-11690 RVN/AD/CP/AM 160920 Page 1 of 1

5000

4000

Mini-Circuits

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