Ceramic Low Pass Filter

50Ω

DC to 80 MHz

Maximum Ratings

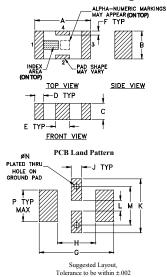
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	8.5W max. at 25°C			
* Deschand rating denote linearly to 2 FW at 100%C ambient				

* 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

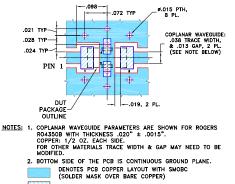
Outline Drawing



Outline Dimensions (inch)

					X 110117		
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	ĸ	L	М	N	Р	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, 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



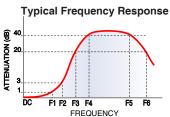
CASE STYLE: FV1206



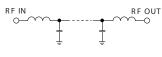
Electrical Specifications^{1,2} at 25°C

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



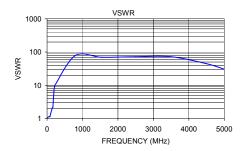




Typical Performance Data at 25°C

Insertion Loss (dB)	VSWR (:1)				
0.22	1.05 1.12				
0.71	1.14				
2.99	2.04				
5.76 32.37	2.22 6.86				
40.63	9.23 10.31				
46.02	78.97				
43.17 32.98	69.49 72.39				
30.05 25.72	72.39 44.55				
24.34	30.49				
	Insertion Loss (dB) 0.22 0.55 0.71 0.80 2.99 5.76 32.37 40.63 42.19 46.02 43.17 32.98 30.05 25.72				





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 mendes thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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