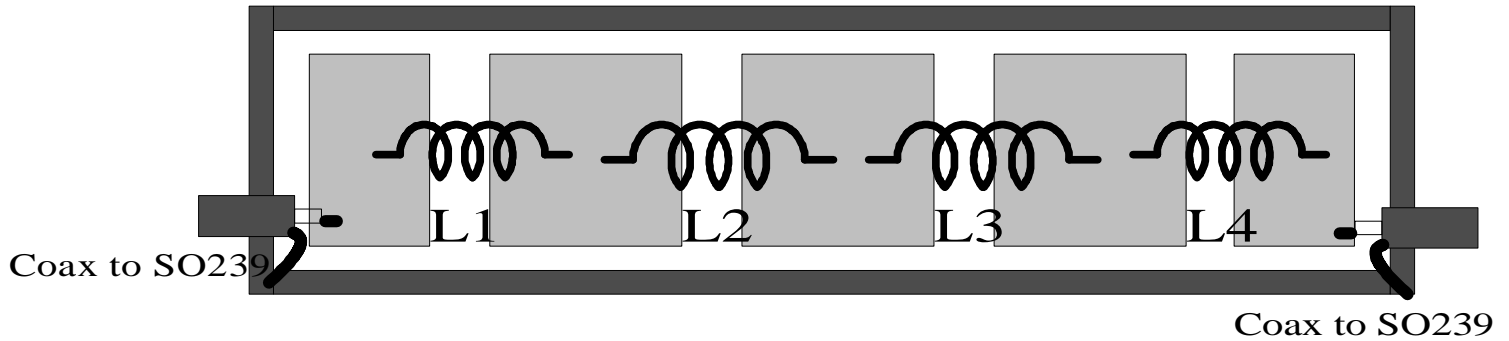


# 9 ELEMENT HIGH POWER LOW PASS FILTER



L1, L4 - 2 1/2 turns #12, 1/2" diameter  
L2, L3 - 2 1/2 turns #12, 9/16" diameter

Note: the pads themselves function as the capacitors so this design does not use discrete capacitors.

Space coil windings 5/32-3/16 inch apart and form as shown below.



Solder from pad to pad, the 9/16" coils in the middle and the 1/2" coils at the ends

For reference purposes the two pads at each end are .9 x 2 inches, the next two pads in from each end are 1.625 x 2 inches and the inner pad is 1.675 x 2 inches. These pads are the actual filter capacitors. There is a ground plane of tinned copper on the back of the circuit board.

## Parts list

L1, L4 - #12 bus wire, 1/2 " diameter, 2 1/2 turns  
L2, L3 - #12 bus wire, 9/16" diameter, 2 1/2 turns  
2 - SO239 connectors  
12 - 4-40 3/8 " bolts  
12 - 4-40 nuts  
4 - ground lugs  
1 - short piece (8") of RG8X

