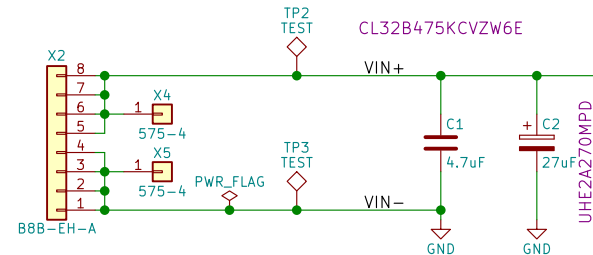


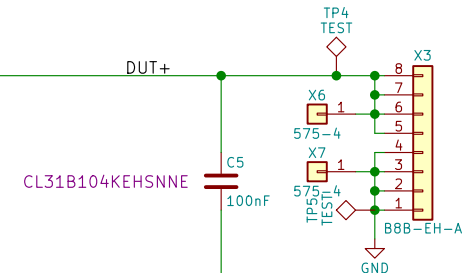
## -10dB DC LISN 5μH

This is a 5μH DC LISN intended for EMC pre compliance measurements of conducted emission.  
It has an attenuation of -10dB and overvoltage protection.  
It must be connected to a 50 Ohm spectrum analyzer input, or terminated with 50 Ohm termination resistor.  
The circuit is a partial implementation of LinearTechnology's DC2130A.

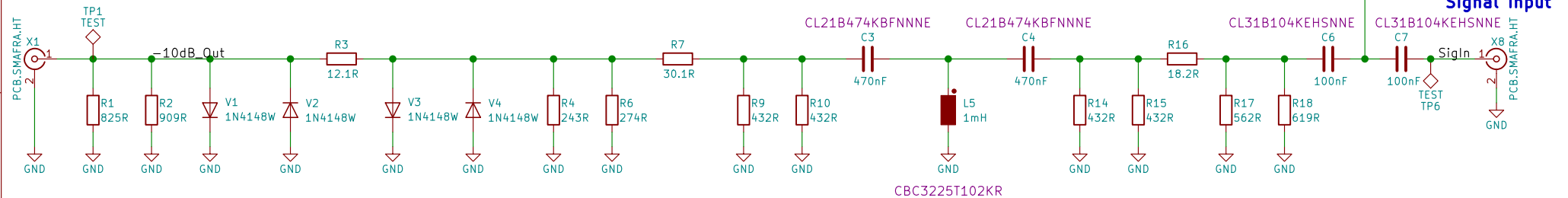
### Power Input



### Power Output



### Spectrum Analyzer



#### Remarks:

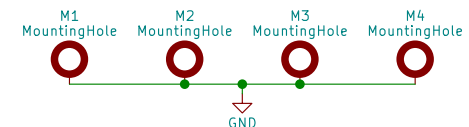
R5, R8, R11, R12 and R13 are damping resistors for the inductors. They are not mounted by default.

The 10dB attenuator can be used as standalone when C5 is unmounted and C7 and X8 are mounted. C7 and X8 are not mounted by default.

Testpoints TP2, TP3, TP4 and TP5 can be used to solder wires to the PCB.  
It is useful when mounting the LISN inside a housing using banana jack binding posts, which do not directly fit to the PCB.  
Therefore the X4, X5, X6 and X7 low cost PCB mount banana plug sockets are not mounted by default.

Housing:  
Fischer Elektronik  
AKG 71 24 100 ME

Banana jack binding posts:  
2x 3760-0 (Pomona, black)  
2x 3760-2 (Pomona, red)  
Binding posts are mounted on the faceplate and soldered to TP2, TP3, TP4 and TP5 with short cables.



### SCAR001

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Sheet: /  
File: DC\_LISN.sch

**Title:** -10dB 5μH DC LISN

Size: A4 Date: 19.11.2017

KiCad E.D.A. kicad 4.0.7

**Rev:** 001

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