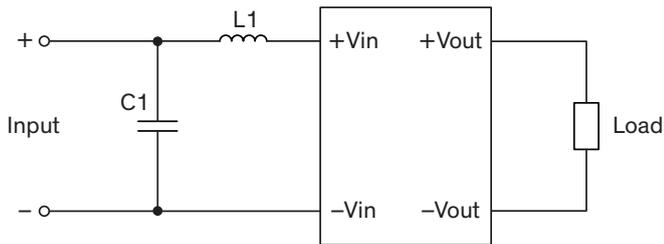


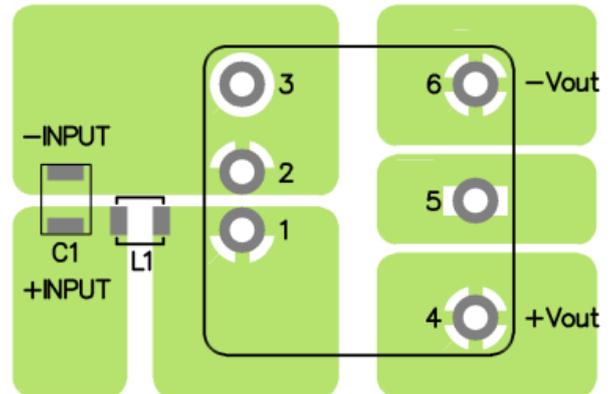
### EMI Consideration

Suggested filter to comply with EN 55032 Conducted and Radiated Emissions Class A limits

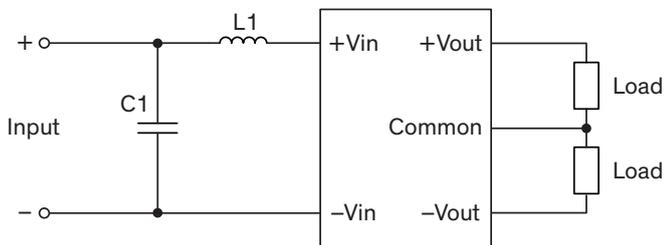
#### Single output models



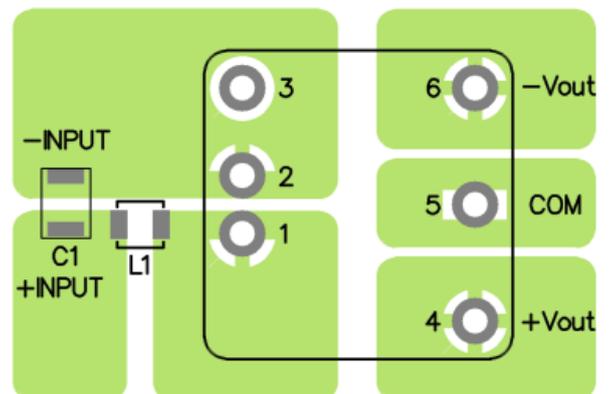
#### Layout suggestion Top View



#### Dual output models



#### Layout suggestion Top View



### Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class A limits

Model	C1	L1
THN 30-24xxWIR	4.7 $\mu$ F / 50 V / 1812 MLCC	2.2 $\mu$ H / TCK-097
THN 30-48xxWIR	4.7 $\mu$ F / 100 V / 1812 MLCC	10 $\mu$ H / TCK-070

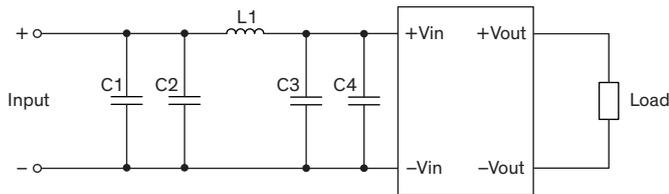
TCK-070 datasheet: [www.tracopower.com/overview/tck-070](http://www.tracopower.com/overview/tck-070)

TCK-097 datasheet: [www.tracopower.com/overview/tck-097](http://www.tracopower.com/overview/tck-097)

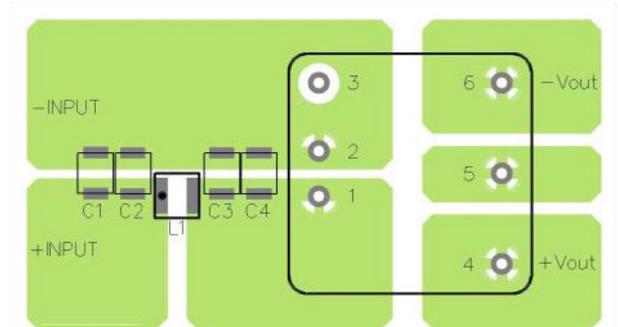
**EMI Consideration**

**Suggested filter to comply with EN 55032 Conducted and Radiated Emissions Class A limits**

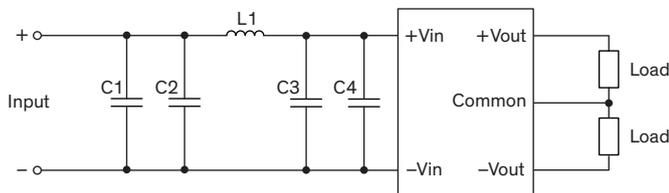
**Single output models**



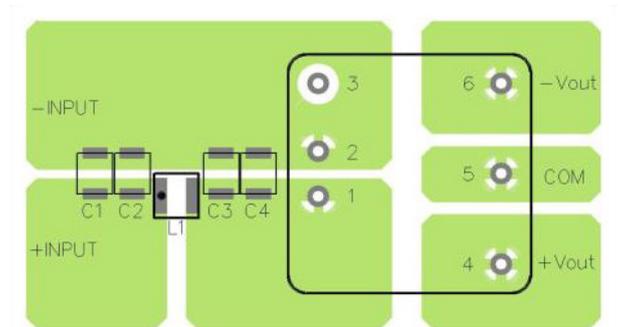
**Layout suggestion Top View**



**Dual output models**



**Layout suggestion Top View**



**Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class A limits**

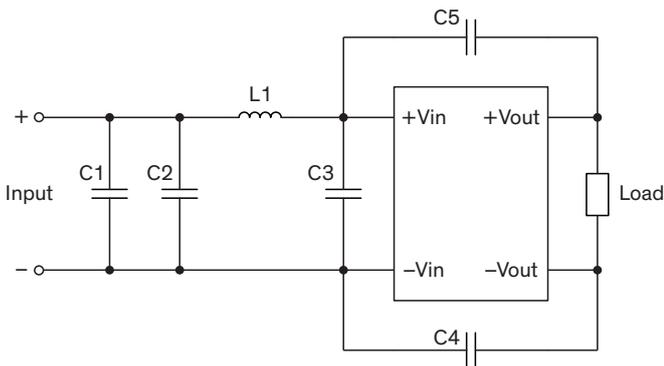
Model	C1, C2, C3, C4	L1
<b>THN 30-72xxWIR</b>	1 $\mu$ F / 250 V / 1812 MLCC	100 $\mu$ H / TCK-182

TCK-182 datasheet: [www.tracopower.com/overview/tck-182](http://www.tracopower.com/overview/tck-182)

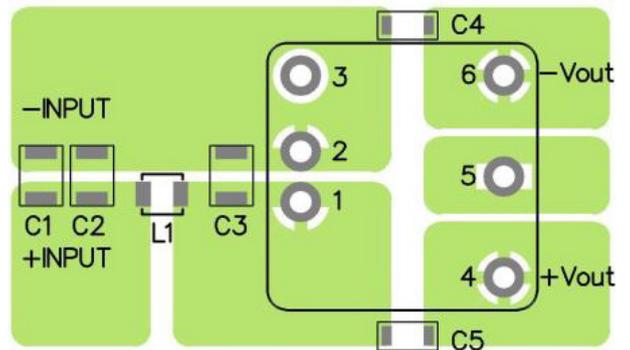
### EMI Consideration

Suggested filter to comply with EN 55032 Conducted and Radiated Emissions Class B limits

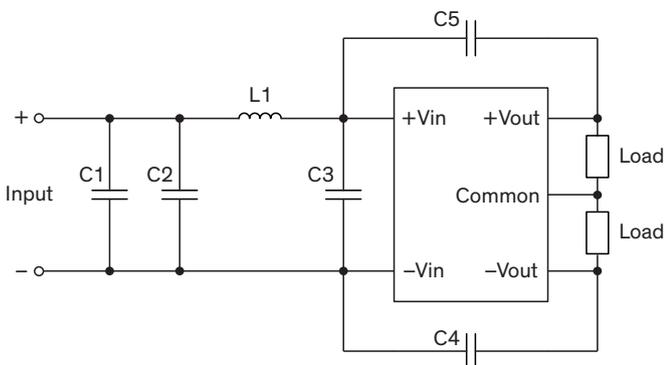
#### Single output models



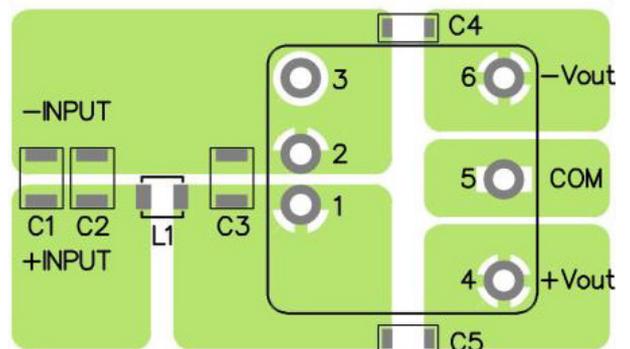
#### Layout suggestion Top View



#### Dual output models



#### Layout suggestion Top View



### Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class B limits

Model	C1, C2, C3	C4, C5	L1
THN 30-24xxWIR	4.7 $\mu$ F / 50 V 1812 MLCC	1'000 pF / 3 kV 1808 MLCC	2.2 $\mu$ H / TCK-097
THN 30-48xxWIR	4.7 $\mu$ F / 100 V 1812 MLCC	2'200 pF / 3 kV 1808 MLCC	10 $\mu$ H / TCK-070

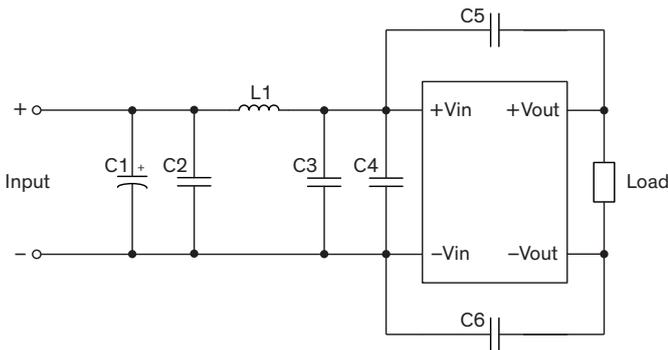
TCK-070 datasheet: [www.tracopower.com/overview/tck-070](http://www.tracopower.com/overview/tck-070)

TCK-097 datasheet: [www.tracopower.com/overview/tck-097](http://www.tracopower.com/overview/tck-097)

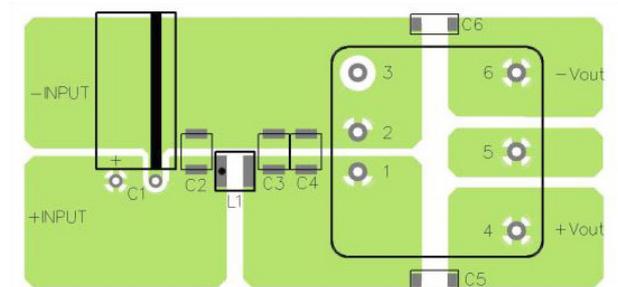
**EMI Consideration**

**Suggested filter to comply with EN 55032 Conducted and Radiated Emissions Class B limits**

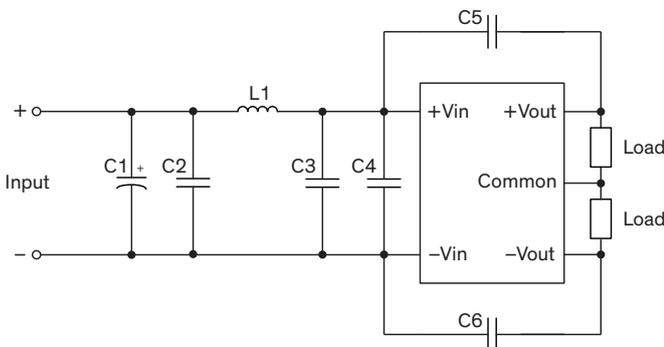
**Single output models**



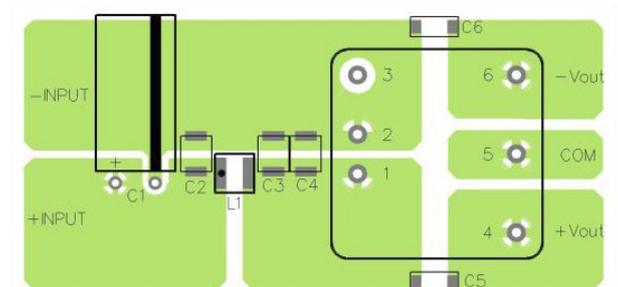
**Layout suggestion Top View**



**Dual output models**



**Layout suggestion Top View**



**Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class B limits**

Model	C1	C2, C3, C4	C5, C6	L1
<b>THN 30-72xxWIR</b>	47 $\mu$ F / 200 V Al. Cap. / KXJ	1 $\mu$ F / 250 V 1812 MLCC	1'000 pF / 3 kV 1808 MLCC	100 $\mu$ H / TCK-182

TCK-182 datasheet: [www.tracopower.com/overview/tck-182](http://www.tracopower.com/overview/tck-182)