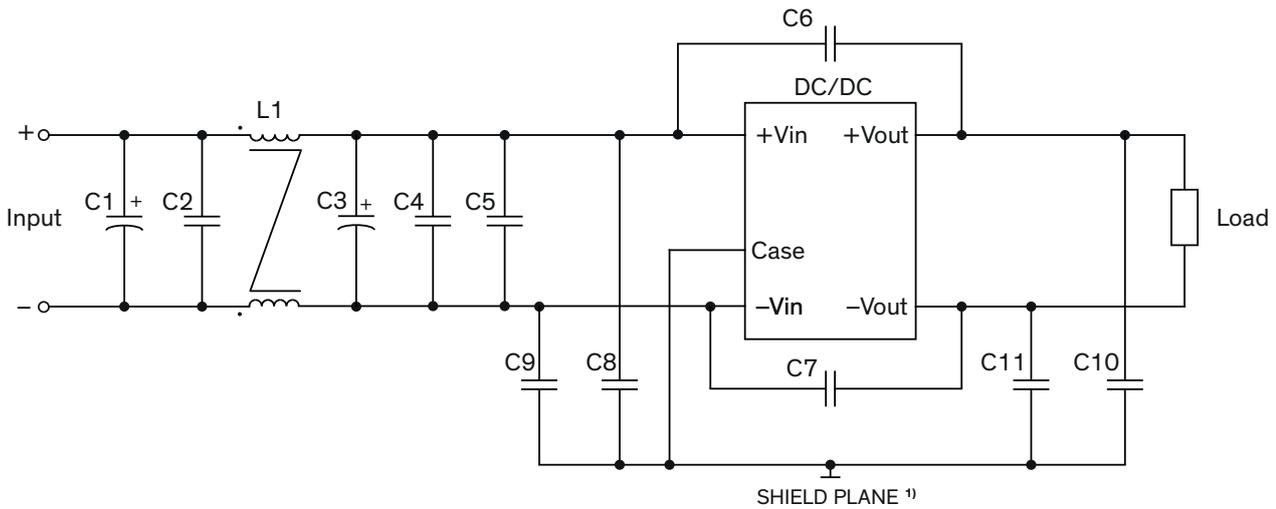


### EMI Consideration

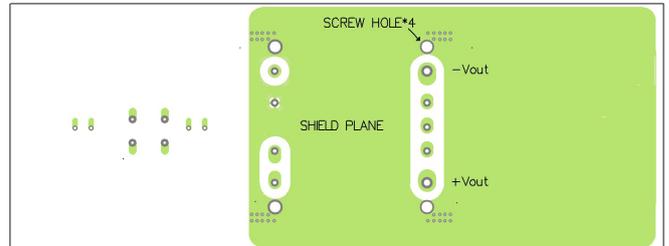
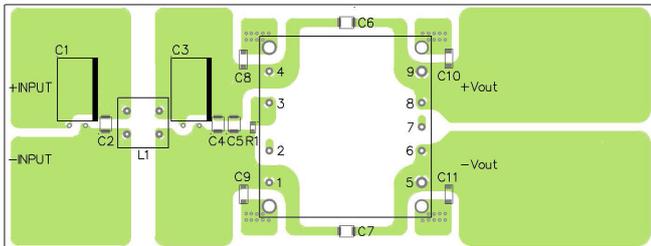
#### Suggested filter to comply with EN 55032 conducted and radiated Emissions Class A limits

Models with suffix F come with an internal filter to comply with conducted and radiated Emissions Class A limits.

#### TEP 75-24xxWI & TEP 75-48xxWI models



#### PCB layout suggestion



<sup>1)</sup> SHIELD PLANE: floating / isolated

#### Suggested components to comply with EN 55032 conducted and radiated Emissions Class A limits

Model	C1, C3	C2, C4, C5	C6, C7, C8, C9, C10, C11	L1
TEP 75-24xxWI	100 $\mu$ F / 50 V Al. Cap (lie down) Chemi-con KY	4.7 $\mu$ F / 50 V 1812 MLCC	1000 pF / 3 kV 1808 MLCC	156 $\mu$ H TCK-072
TEP 75-48xxWI	100 $\mu$ F / 100 V Al. Cap (lie down) Chemi-con KY	2.2 $\mu$ F / 100 V 1812 MLCC	1000 pF / 3 kV 1808 MLCC	620 $\mu$ H TCK-067

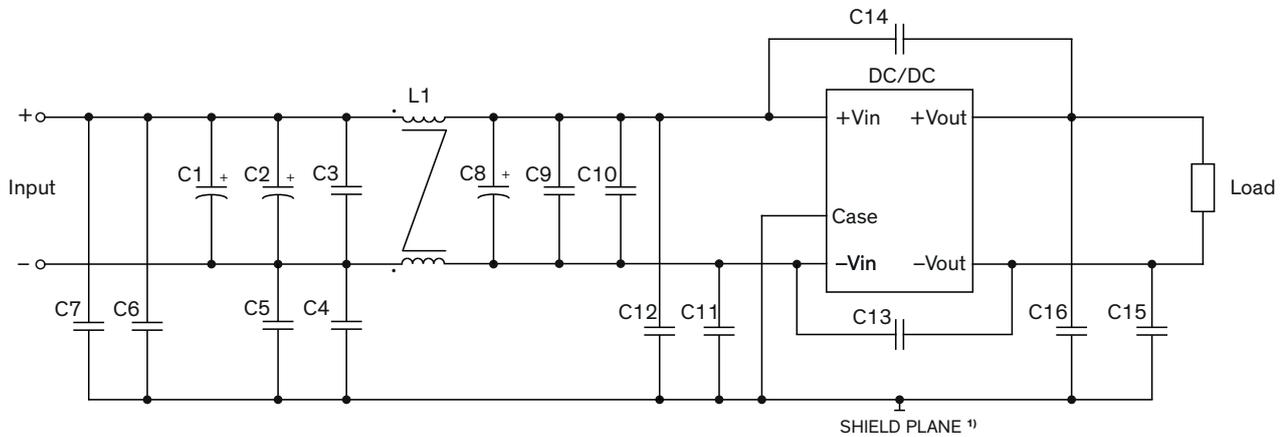
TCK-067 datasheet: [www.tracopower.com/overview/tck-067](http://www.tracopower.com/overview/tck-067)

TCK-072 datasheet: [www.tracopower.com/overview/tck-072](http://www.tracopower.com/overview/tck-072)

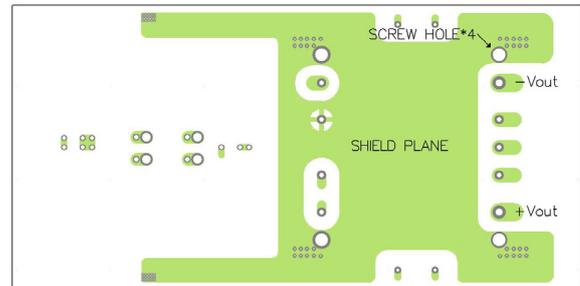
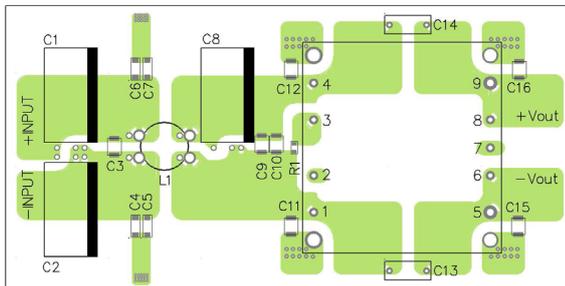
### Suggested filter to comply with EN 55032 conducted and radiated Emissions Class A limits

Models with suffix F come with an internal filter to comply with conducted and radiated Emissions Class A limits.

#### TEP 75-72xxWI models



#### PCB layout suggestion



<sup>1)</sup> SHIELD PLANE: floating / isolated

### Suggested components to comply with EN 55032 conducted and radiated Emissions Class A limits

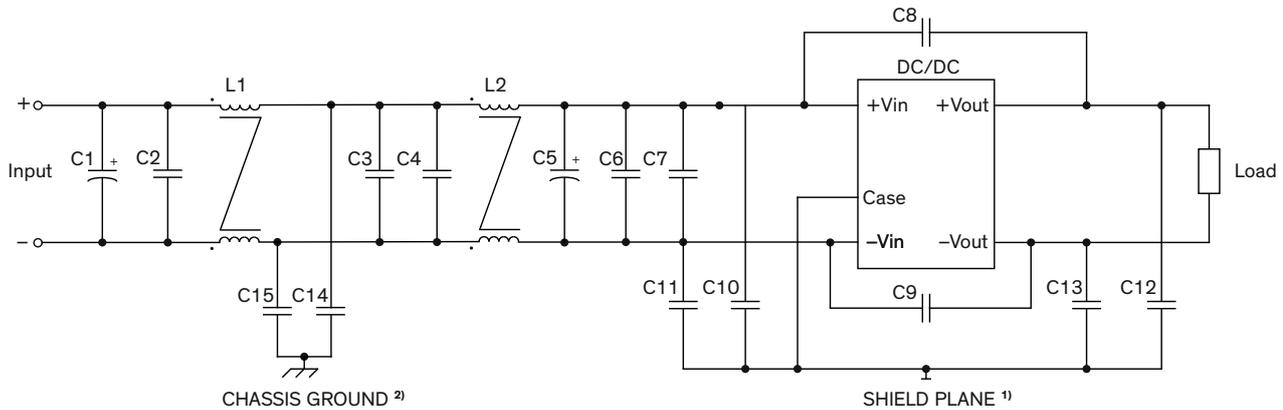
Model	C1, C8	C10	C13, C14	C5, C15, C16	L1
TEP 75-72xxWI	150 $\mu$ F / 200 V Al. Cap (lie down) Chemi-con KY	1 $\mu$ F / 250 V 1812 MLCC	1000 pF / 400 VAC TDK CD Series	1000 pF / 5 kV 1808 MLCC	521 $\mu$ H TCK-088

\*C2, C3, C4, C6, C7, C9, C11, C12 = N/A

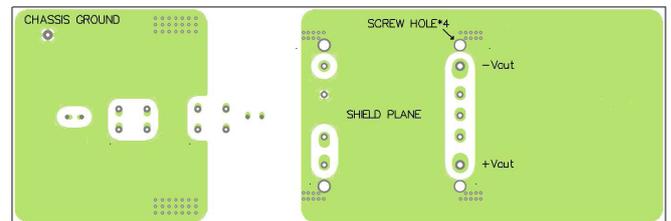
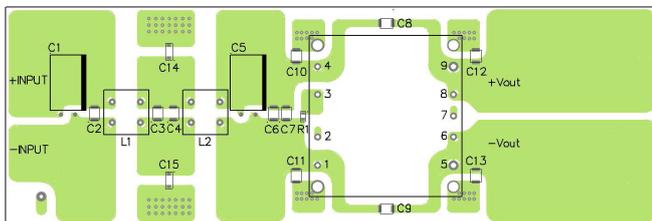
TCK-088 datasheet: [www.tracopower.com/overview/tck-088](http://www.tracopower.com/overview/tck-088)

### Suggested filter to comply with EN 55032 conducted and radiated Emissions Class B limits

#### TEP 75-24xxWI & TEP 75-48xxWI models



#### PCB layout suggestion



<sup>1)</sup> SHIELD PLANE: floating / isolated

<sup>2)</sup> CHASSIS GROUND: Connect to chassis or earth, if not available leave floating

#### Suggested components to comply with EN 55032 conducted and radiated Emissions Class B limits

Model	C1, C5	C2, C3, C4, C6, C7	C8, C14, C15	C9	C10, C11, C12, C13	L1	L2
TEP 75-24xxWI	100 $\mu$ F / 50 V Al. Cap (lie down) Chemi-con KY	4.7 $\mu$ F / 50 V 1812 MLCC	1000 pF / 3 kV 1808 MLCC	1000 pF / 3 kV 1808 MLCC	10 nF / 2 kV 1812 MLCC	305 $\mu$ H TCK-073	305 $\mu$ H TCK-073
TEP 75-48xxWI	100 $\mu$ F / 100 V Al. Cap (lie down) Chemi-con KY	2.2 $\mu$ F / 100 V 1812 MLCC	1000 pF / 3 kV 1808 MLCC	4700 pF / 3 kV 1808 MLCC	10 nF / 2 kV 1812 MLCC	1186 $\mu$ H TCK-064	156 $\mu$ H TCK-072

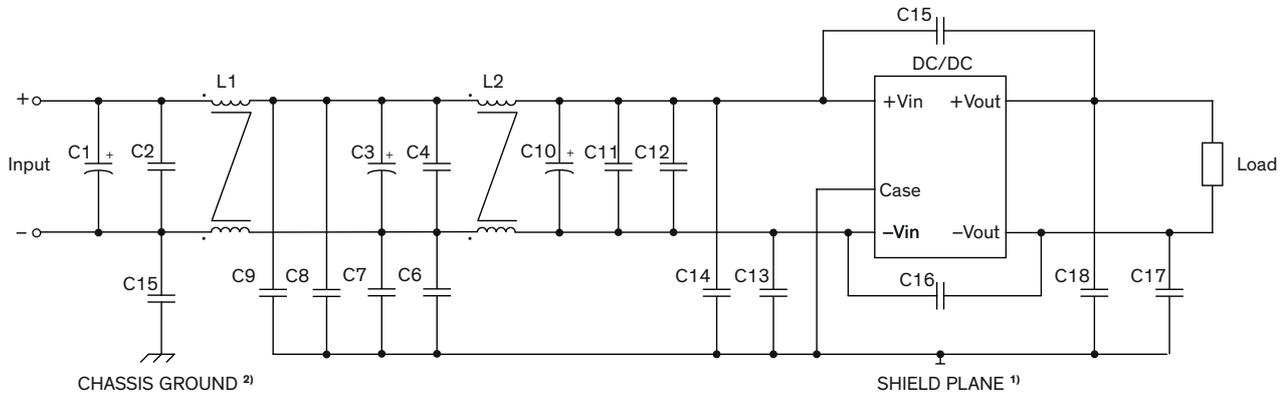
TCK-064 datasheet: [www.tracopower.com/overview/tck-064](http://www.tracopower.com/overview/tck-064)

TCK-072 datasheet: [www.tracopower.com/overview/tck-072](http://www.tracopower.com/overview/tck-072)

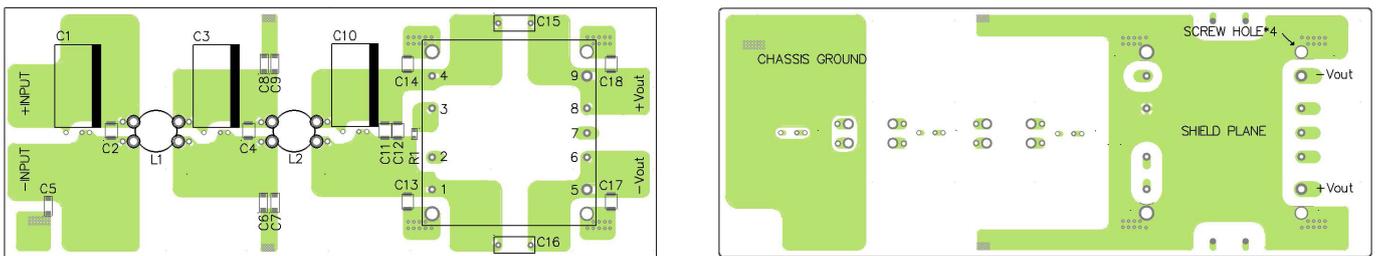
TCK-073 datasheet: [www.tracopower.com/overview/tck-073](http://www.tracopower.com/overview/tck-073)

### Suggested filter to comply with EN 55032 conducted and radiated Emissions Class B limits

#### TEP 75-72xxWI models



#### PCB layout suggestion



1) SHIELD PLANE: floating / isolated

2) CHASSIS GROUND: Connect to chassis or earth, if not available leave floating

#### Suggested components to comply with EN 55032 conducted and radiated Emissions Class B limits

Model	C1, C3 C10	C11, C12	C13	C15, C16	C6, C7, C8, 9, C17, C18	L1	L2
TEP 75-72xxWI	150 $\mu$ F / 200 V Al. Cap (lie down) Chemi-con KY	1 $\mu$ F / 250 V 1812 MLCC	330 pF / 5 kV 1808 MLCC	1000 pF 400 VAC TDK CD Series	1000 pF / 5 kV 1808 MLCC	305 $\mu$ H TCK-101	806 $\mu$ H TCK-113

\*C2, C4, C5, C14 = N/A

TCK-101 datasheet: [www.tracopower.com/overview/tck-101](http://www.tracopower.com/overview/tck-101)

TCK-113 datasheet: [www.tracopower.com/overview/tck-113](http://www.tracopower.com/overview/tck-113)