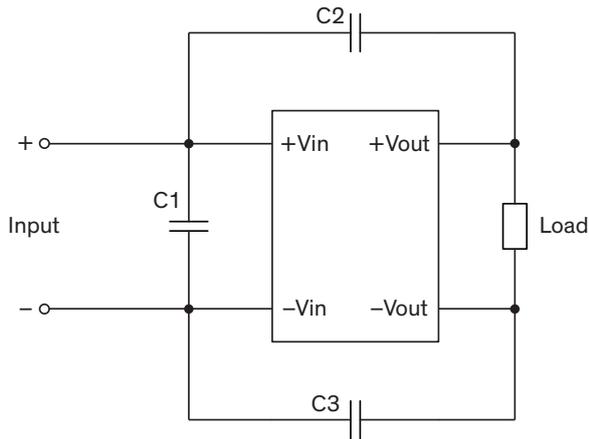


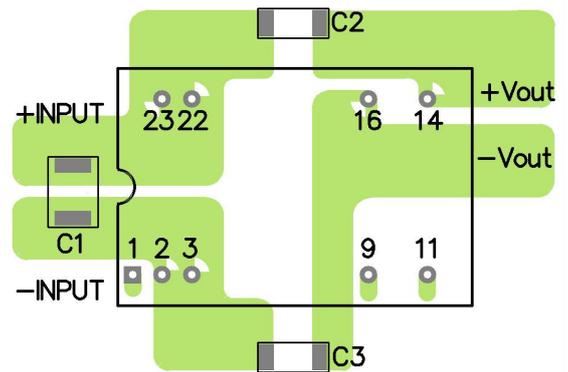
### EMI Consideration

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

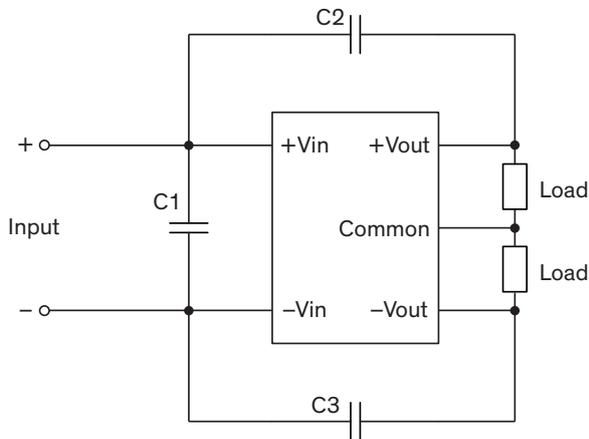
#### Single output models



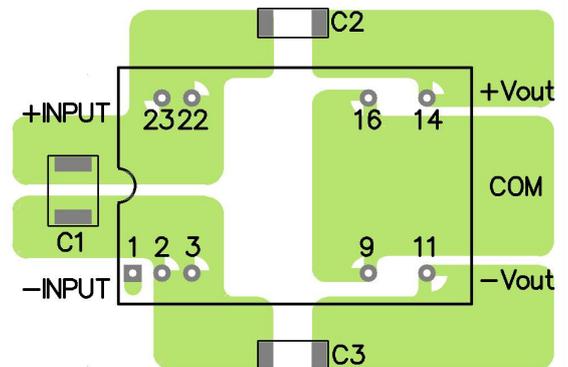
#### PCB layout suggestion



#### Dual output models



#### PCB layout suggestion

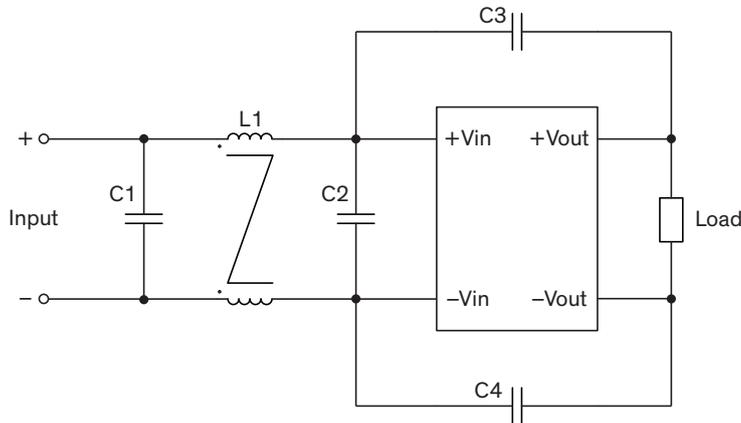


### Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class A limits

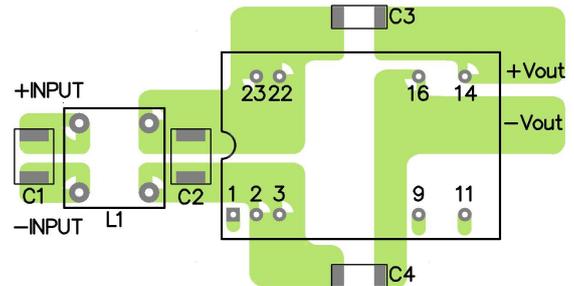
Model	C1	C2, C3
THD 12-12xx	6.8 $\mu$ F / 50 V / 1210 MLCC	1'000 pF / 2 kV / 1206 MLCC
THD 12-24xx	4.7 $\mu$ F / 50 V / 1210 MLCC	
THD 12-48xx	2.2 $\mu$ F / 100 V / 1812 MLCC	

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

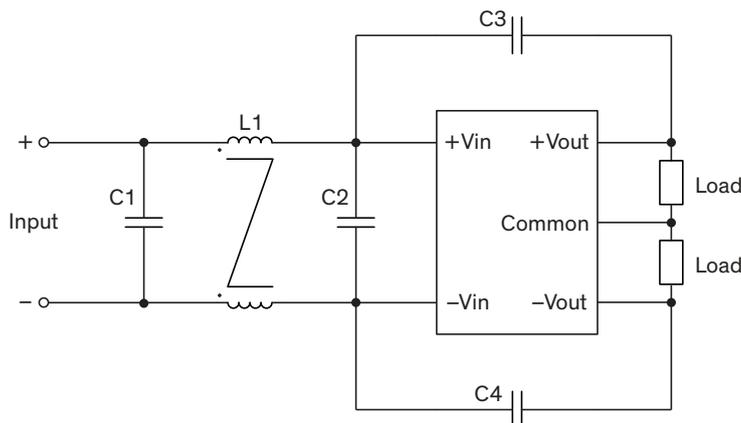
#### Single output models



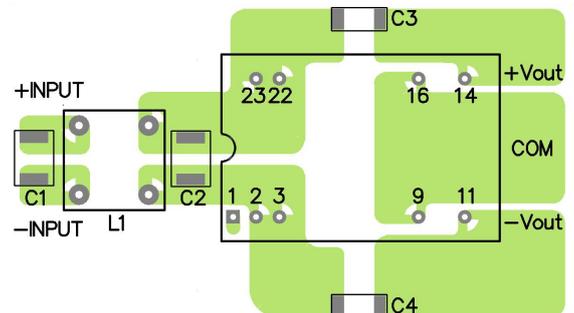
#### PCB layout suggestion



#### Dual output models



#### PCB layout suggestion



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

Model	C1	C2	C3, C4	L1
THD 12-12xx	3.3 $\mu$ F / 50 V 1812 MLCC	-	1'000 pF / 2 kV 1206 MLCC	325 $\mu$ H / 3.3 A TCK-050
THD 12-24xx	4.7 $\mu$ F / 50 V 1812 MLCC			
THD 12-48xx	2.2 $\mu$ F / 100 V 1812 MLCC	2.2 $\mu$ F / 100 V 1812 MLCC		145 $\mu$ H / 5.2 A TCK-051

TCK-050 datasheet: [www.tracopower.com/overview/tck-050](http://www.tracopower.com/overview/tck-050)

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