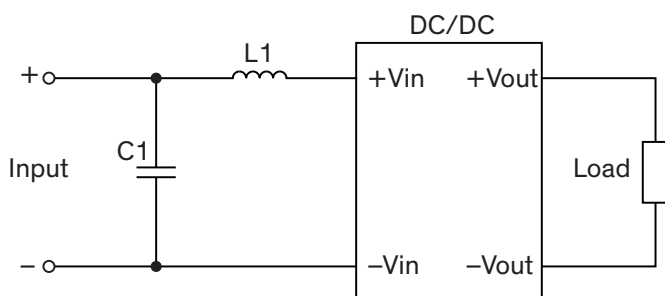


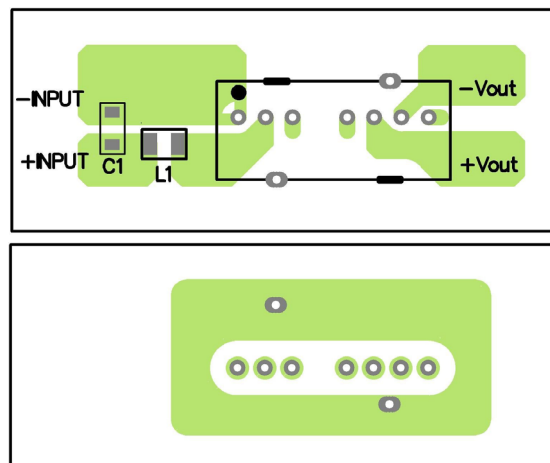
EMI Consideration

Suggested filter to comply with EN 55032 Class A limits

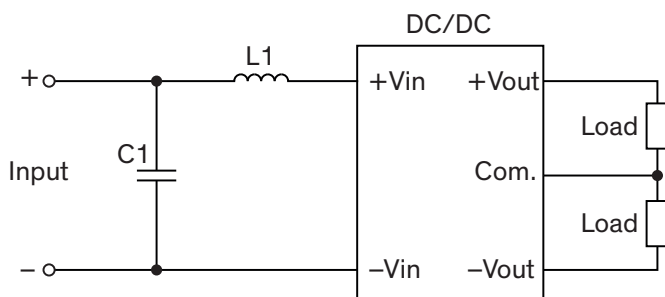
Single output models



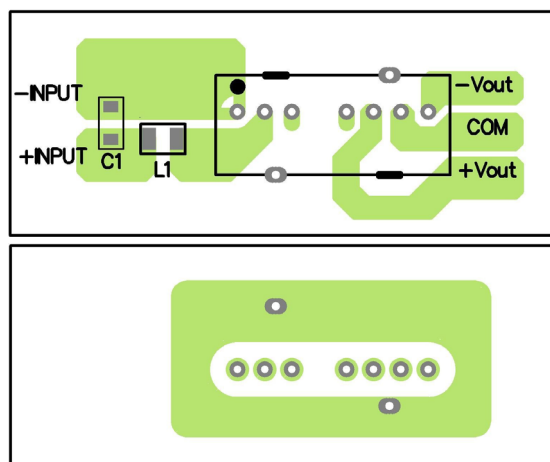
PCB layout suggestion (top/bottom)



Dual output models



PCB layout suggestion (top/bottom)



Suggested components to comply with EN 55032 Class A limits

Model	C1	L1
TVN 3-05xx	10 μ F / 25 V 1206 MLCC	4.7 μ H / 1.2 A / 0.14 Ohm SMD Inductor: TCK-151
TVN 3-12xx	10 μ F / 25 V 1206 MLCC	10 μ H / 1.0 A / 0.35 Ohm SMD Inductor: TCK-146
TVN 3-24xx	4.7 μ F / 50 V 1206 MLCC	15 μ H / 0.6 A / 0.6 Ohm SMD Inductor: TCK-147
TVN 3-48xx	2.2 μ F / 100 V 1206 MLCC	82 μ H / 0.25 A / 2.8 Ohm SMD Inductor: TCK-148

TCK-146 datasheet: www.tracopower.com/overview/tck-146

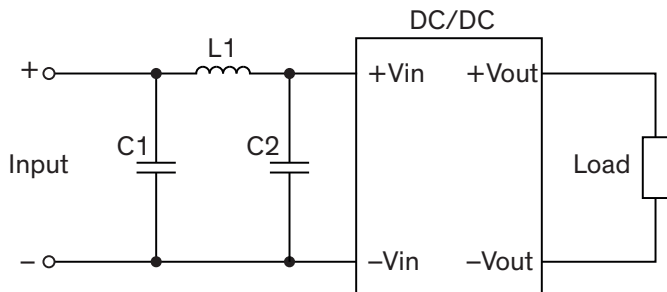
TCK-147 datasheet: www.tracopower.com/overview/tck-147

TCK-148 datasheet: www.tracopower.com/overview/tck-148

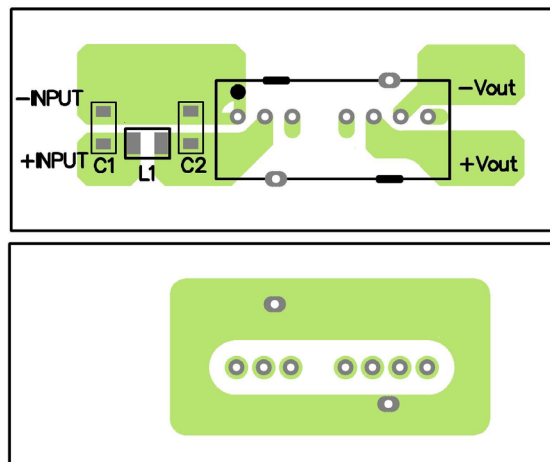
TCK-151 datasheet: www.tracopower.com/overview/tck-151

Suggested filter to comply with EN 55032 Class B limits

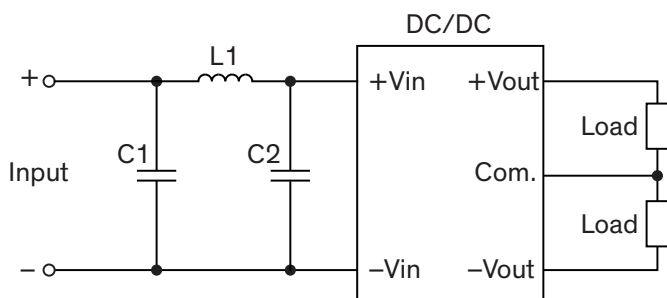
Single output models



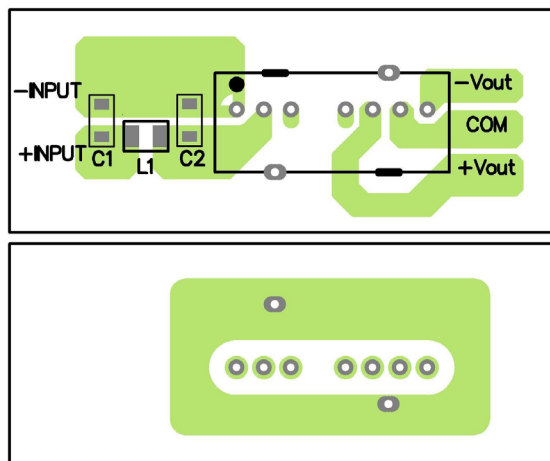
PCB layout suggestion (top/bottom)



Dual output models



PCB layout suggestion (top/bottom)



Suggested components to comply with EN 55032 Class B limits

Model	C1	C2	L1
TVN 3-05xx	22 μ F / 25 V 1206 MLCC	22 μ F / 25 V 1206 MLCC	4.7 μ H / 1.2 A / 0.14 Ohm SMD Inductor: TCK-151
TVN 3-12xx	10 μ F / 25 V 1206 MLCC	10 μ F / 25 V 1206 MLCC	15 μ H / 0.6 A / 0.6 Ohm SMD Inductor: TCK-147
TVN 3-24xx	10 μ F / 50 V 1206 MLCC	10 μ F / 50 V 1206 MLCC	15 μ H / 0.6 A / 0.6 Ohm SMD Inductor: TCK-147
TVN 3-48xx	2.2 μ F / 100 V 1206 MLCC	2.2 μ F / 100 V 1206 MLCC	82 μ H / 0.25 A / 2.8 Ohm SMD Inductor: TCK-148

TCK-146 datasheet: www.tracopower.com/overview/tck-146

TCK-147 datasheet: www.tracopower.com/overview/tck-147

TCK-148 datasheet: www.tracopower.com/overview/tck-148

TCK-151 datasheet: www.tracopower.com/overview/tck-151