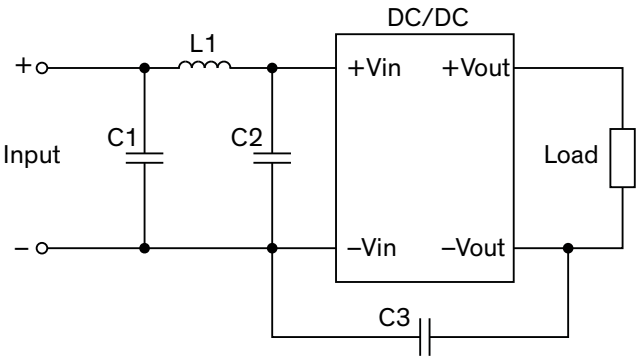
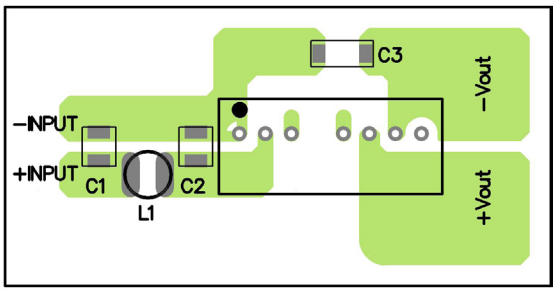
EMI Consideration

Suggested filter to comply with EN 55032 Class A limits

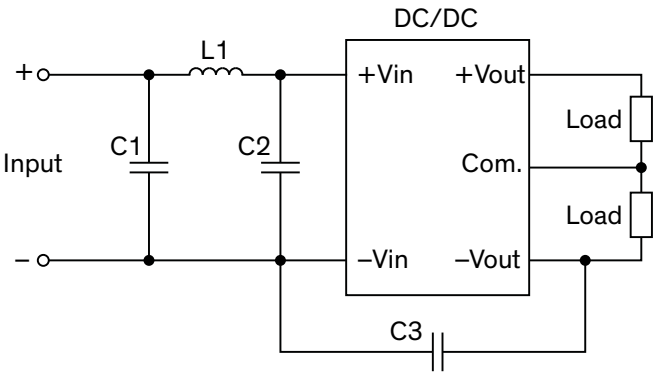
Single output models



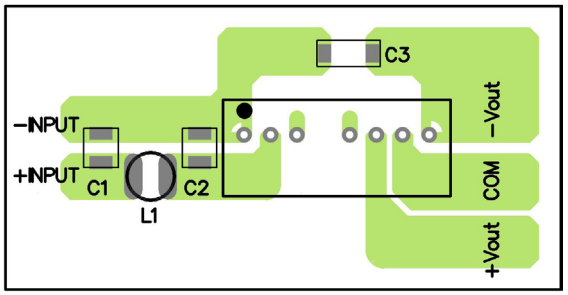
PCB layout suggestion



Dual output models



PCB layout suggestion



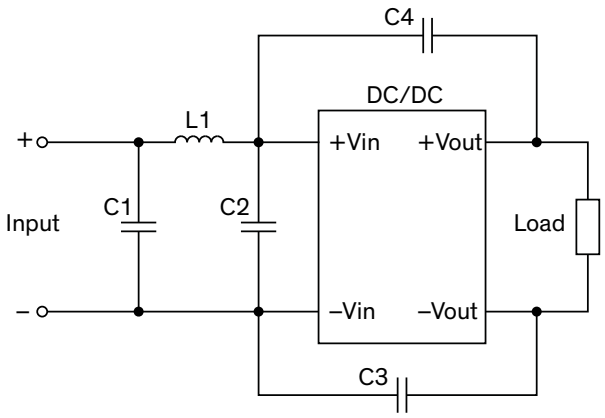
Suggested components to comply with EN 55032 Class A limits				
Model	**C1**	**C2**	**C3**	**L1**
TEC 2-09xx	10 µF / 16 V 1206 MLCC	4.7 µF / 16 V 1206 MLCC	150 pF / 2 kV 1206 MLCC	4.7 µH / 1.15 A SMD-Inductor TCK-154
TEC 2-12xx	4.7 µF / 25 V 1206 MLCC	2.2 µF / 25 V 1206 MLCC	N/A	4.7 µH / 1.15 A SMD-Inductor TCK-154
TEC 2-24xx	2.2 µF / 50 V 1206 MLCC	N/A	150 pF / 2 kV 1206 MLCC	68 µH / 0.37 A SMD-Inductor TCK-133
TEC 2-48xx	2.2 µF / 100 V 1206 MLCC	N/A	150 pF / 2 kV 1206 MLCC	68 µH / 0.37 A SMD-Inductor TCK-133

TCK-154 datasheet: www.tracopower.com/products/tck154.pdf

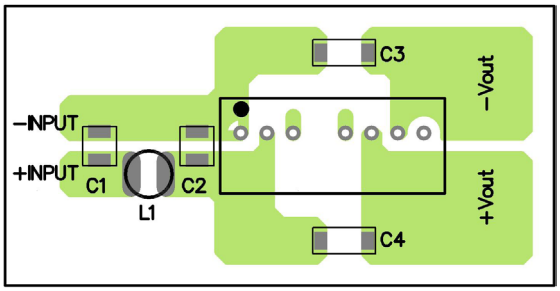
TCK-133 datasheet: www.tracopower.com/products/tck133.pdf

Suggested filter to comply with EN 55032 Class B limits

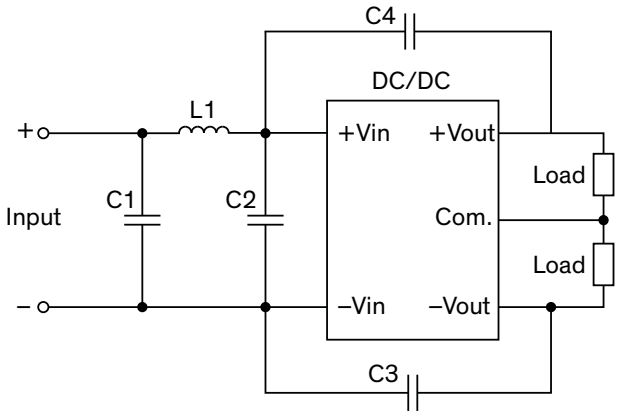
Single output models



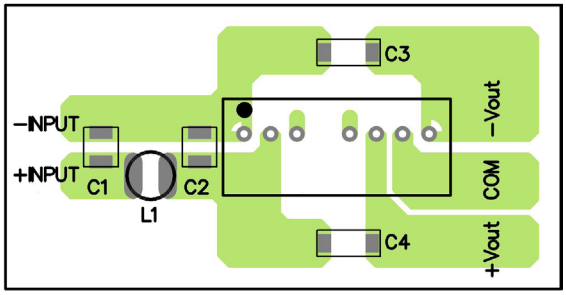
PCB layout suggestion



Dual output models



PCB layout suggestion



Suggested components to comply with EN 55032 Class B limits					
Model	**C1**	**C2**	**C3**	**C4**	**L1**
TEC 2-09xx	10 µF / 16 V 1206 MLCC	10 µF / 16 V 1206 MLCC	220 pF / 2 kV 1206 MLCC	150 pF / 2 kV 1206 MLCC	4.7 µH / 1.15 A SMD-Inductor TCK-154
TEC 2-12xx	10 µF / 25 V 1206 MLCC	4.7 µF / 25 V 1206 MLCC	150 pF / 2 kV 1206 MLCC	N/A	4.7 µH / 1.15 A SMD-Inductor TCK-154
TEC 2-24xx	2.2 µF / 50 V 1206 MLCC	2.2 µF / 50 V 1206 MLCC	150 pF / 2 kV 1206 MLCC	680 pF / 2 kV 1206 MLCC	68 µH / 0.37 A SMD-Inductor TCK-133
TEC 2-48xx	2.2 µF / 100 V 1206 MLCC	1 µF / 100 V 1206 MLCC	150 pF / 2 kV 1206 MLCC	N/A	68 µH / 0.37 A SMD-Inductor TCK-133

TCK-154 datasheet: www.tracopower.com/products/tck154.pdf
TCK-133 datasheet: www.tracopower.com/products/tck133.pdf

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