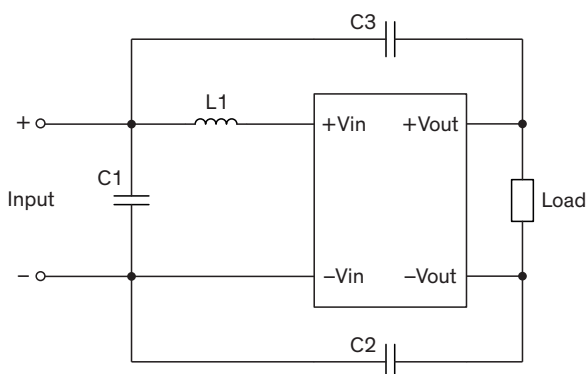


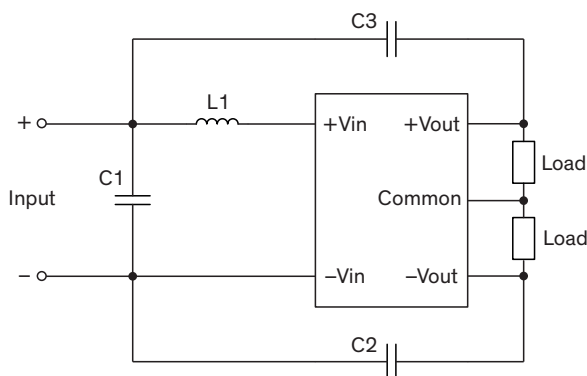
EMI Consideration

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

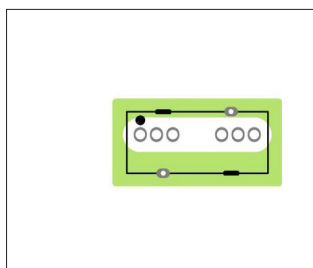
Single output models



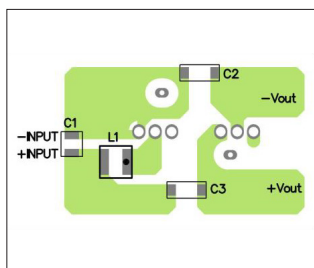
Dual output models



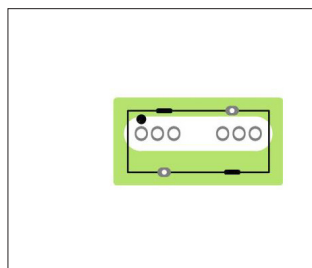
PCB layout suggestion Top View



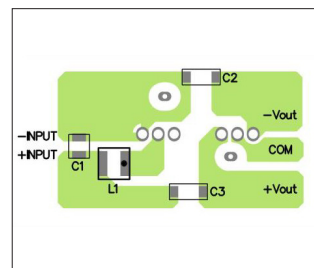
Bottom View



PCB layout suggestion Top View



Bottom View



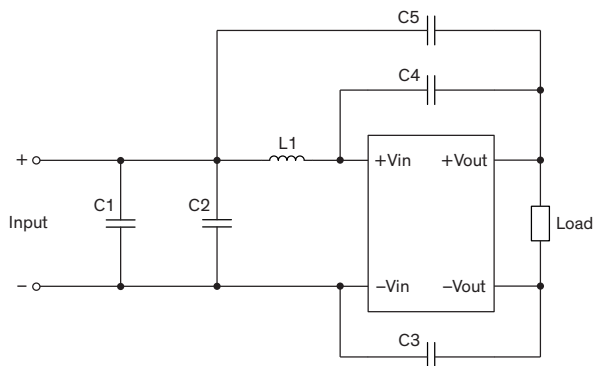
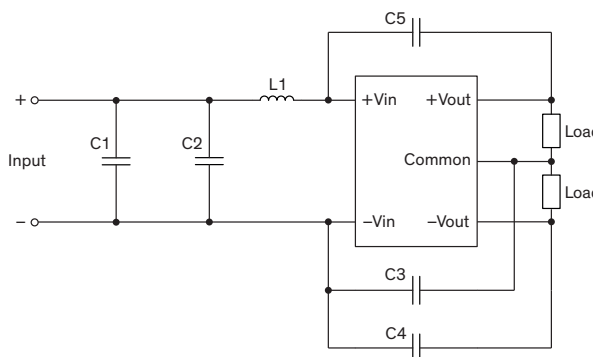
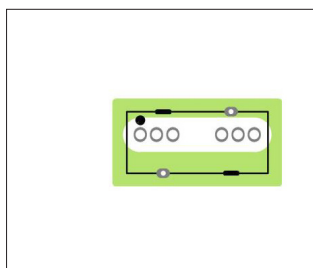
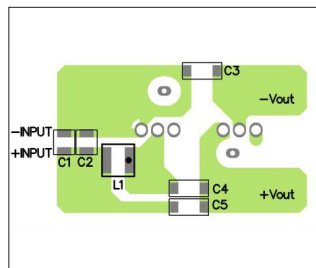
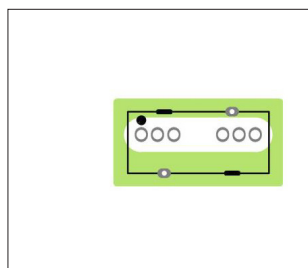
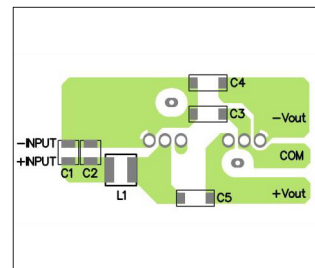
Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class A limits

Model	C1	C2	C3	L1
TMR 12-12xxWI	10 μ F / 25 V 1210 X7R	330 pF / 3 kV 1808 X7R	680 pF / 3 kV 1808 X7R	2.2 μ H / TCK-171
TMR 12-24xxWI	4.7 μ F / 50 V 1210 X7R	-		10 μ H / TCK-172
TMR 12-48xxWI	2.2 μ F / 100 V 1210 X7R	220 pF / 3 kV 1808 X7R	220 pF / 3 kV 1808 X7R	47 μ H / TCK-170

TCK-170 datasheet: www.tracopower.com/products/tck170.pdf

TCK-171 datasheet: www.tracopower.com/products/tck171.pdf

TCK-172 datasheet: www.tracopower.com/products/tck172.pdf

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

Dual output models

**PCB layout suggestion
Top View**

Bottom View

**PCB layout suggestion
Top View**

Bottom View

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

Model	C1, C2	C3	C4	C5	L1
TMR 12-121xWI	22 μ F / 25 V 1210 X7R	680 pF / 3 kV 1808 X7R	220 pF / 3 kV 1808 X7R	-	2.2 μ H / TCK-171
TMR 12-241xWI	10 μ F / 50 V 1210 X7R	2200 pF / 3 kV 1808 X7R	-	470 pF / 3 kV 1808 X7R	10 μ H / TCK-172
TMR 12-4811WI	4.7 μ F / 100 V 1210 X7S	2200 pF / 3 kV 1808 X7R	1000 pF / 3 kV 1808 X7R	-	47 μ H / TCK-170
TMR 12-4819WI					
TMR 12-4812WI					
TMR 12-4813WI					
TMR 12-4815WI					
TMR 12-4810WI		220 pF / 3 kV 1808 X7R	-	470 pF / 3 kV 1808 X7R	
TMR 12-122xWI	22 μ F / 25 V 1210 X7R	220 pF / 3 kV 1808 X7R	680 pF / 3 kV 1808 X7R	220 pF / 3 kV 1808 X7R	2.2 μ H / TCK-171
TMR 12-242xWI	10 μ F / 50 V 1210 X7R		1000 pF / 3 kV 1808 X7R	470 pF / 3 kV 1808 X7R	10 μ H / TCK-172
TMR 12-482xWI	4.7 μ F / 100 V 1210 X7S		2200 pF / 3 kV 1808 X7R	1000 pF / 3 kV 1808 X7R	47 μ H / TCK-170

TCK-170 datasheet: www.tracopower.com/products/tck170.pdf

TCK-171 datasheet: www.tracopower.com/products/tck171.pdf

TCK-172 datasheet: www.tracopower.com/products/tck172.pdf