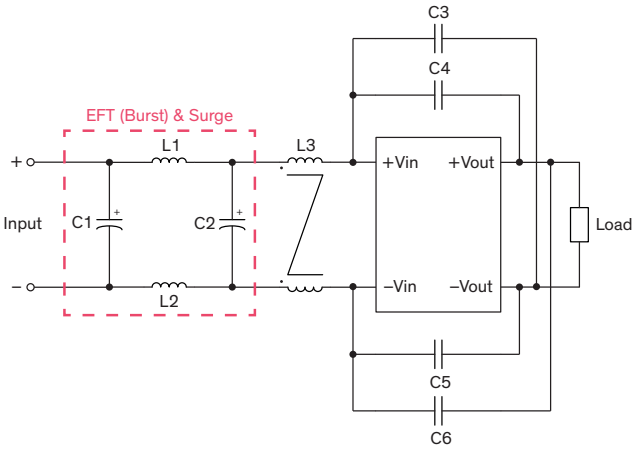
EMI Consideration

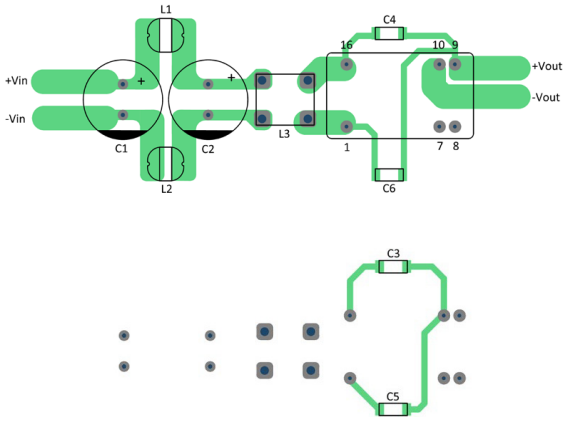
TEL 15WIN and TEL 15WIN-HS comply with EN 55032 Conducted Class A limits without external filter

Suggested filter to comply with EN 55032 Radiated Emissions Class A, EFT & Surge

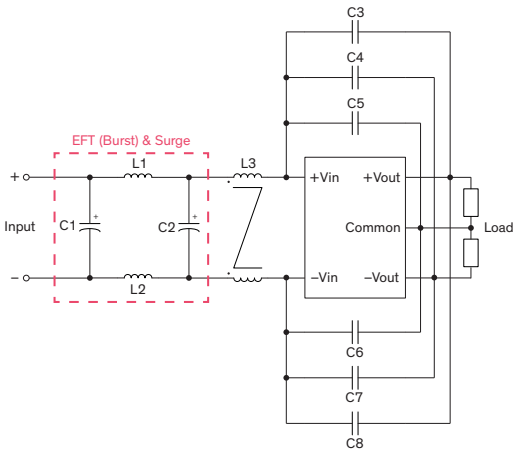
Single output models



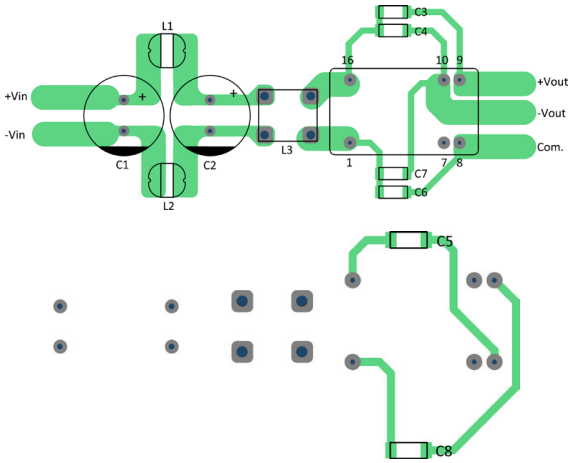
PCB layout suggestion (top/bottom)



Dual output models



PCB layout suggestion (top/bottom)

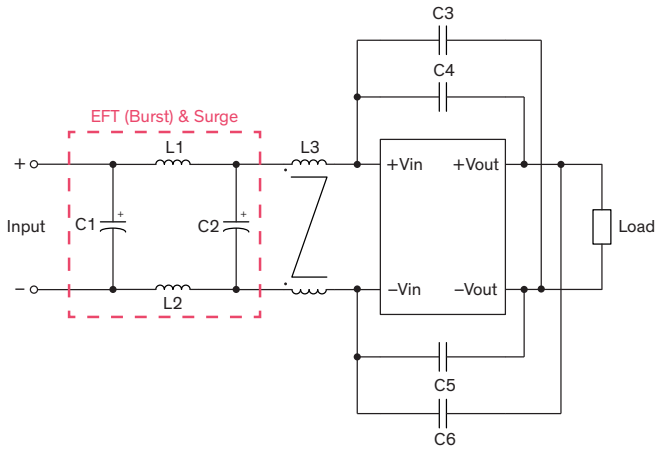


Suggested components to comply with EN 55032 Radiated Emissions Class A, EFT & Surge

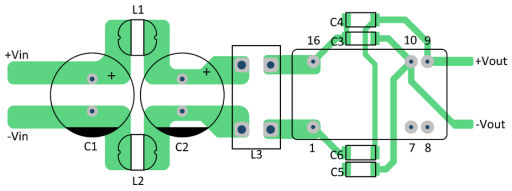
Model	C1, C2	L1, L2	L3	C3	C4	C5	C6	C7	C8
TEL 15-241xWIN TEL 15-241xWIN-HS	470 µF 50 V KY	10 µH 2.2 A 78 mΩ 74477410	-	-	1000 pF 2 kV 1808 X7R	1000 pF 2 kV 1808 X7R	-	-	-
TEL 15-2422-WIN TEL 15-2422-WIN-HS					-				1000 pF 2 kV 1808 X7R
TEL 15-2423-WIN TEL 15-2423-WIN-HS					1000 pF 2 kV 1808 X7R	-			
TEL 15-481xWIN TEL 15-481xWIN-HS	220 µF 100 V KY		30 µH 1.4 A 60 mΩ 744273222	1000 pF 2 kV 1808 X7R	680 pF 2 kV 1808 X7R	1000 pF 2 kV 1808 X7R	680 pF 2 kV 1808 XR		-
TEL 15-482xWIN TEL 15-482xWIN-HS				1500 pF 2 kV 1808 X7R	1500 pF 2 kV 1808 X7R	1800 pF 2 kV 1808 X7R	1800 pF 2 kV 1808 X7R	1500 pF 2 kV 1808 X7R	1500 pF 2 kV 1808 X7R

Suggested filter to comply with EN 55032 Conducted and Radiated Emissions Class B, EFT & Surge

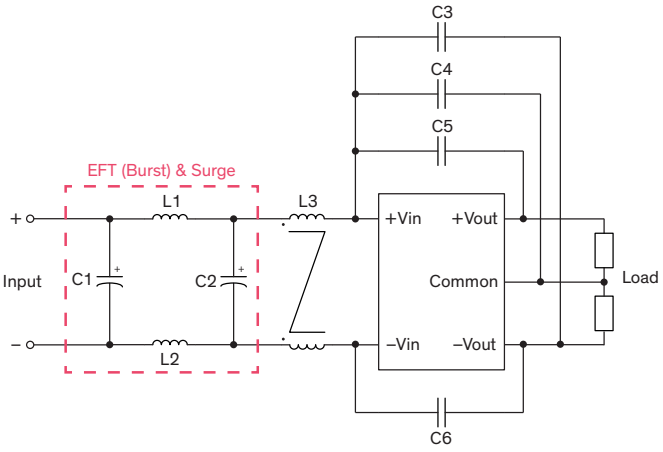
Single output models



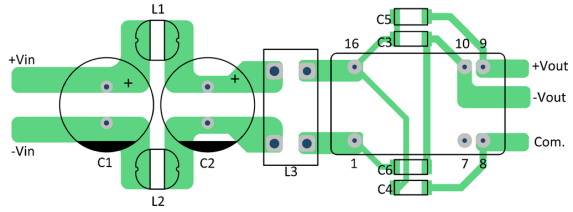
PCB layout suggestion



Dual output models



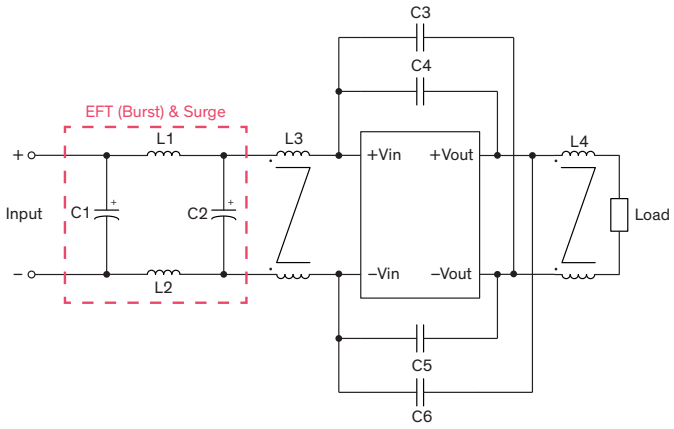
PCB layout suggestion



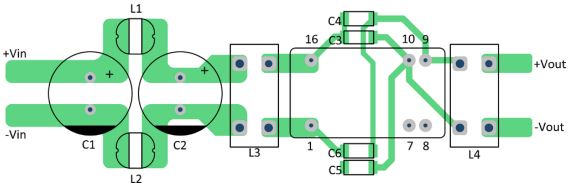
Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class B, EFT & Surge							
Model	**C1, C2**	**L1, L2**	**L3**	**C3**	**C4**	**C5**	**C6**
TEL 15-241xWIN **TEL 15-241xWIN-HS**	470 µF 50 V KY	10 µH 2.2 A 78 mΩ 74477410	14 µH 4 A 15 mΩ 744841414	1200 pF 2 kV 1808 X7R	330 pF 2 kV 1808 X7R	1000 pF 2 kV 1808 X7R	680 pF 2 KV 1808 X7R
TEL 15-242xWIN **TEL 15-242xWIN-HS**				1000 pF 2 kV 1808 X7R	1000 pF 2 kV 1808 X7R		1000 pF 2 kV 1808 X7R

Suggested filter to comply with EN 55032 Conducted and Radiated Emissions Class B, EFT & Surge (continued)

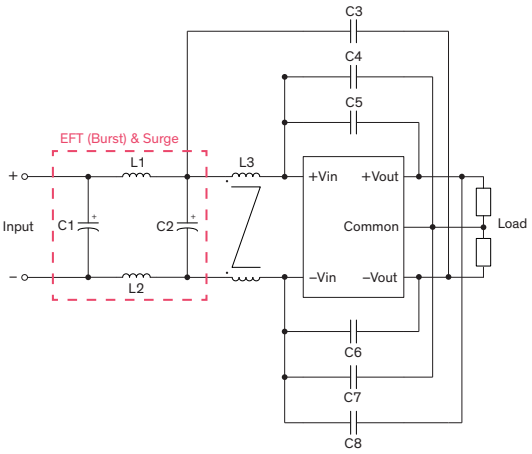
Single output models



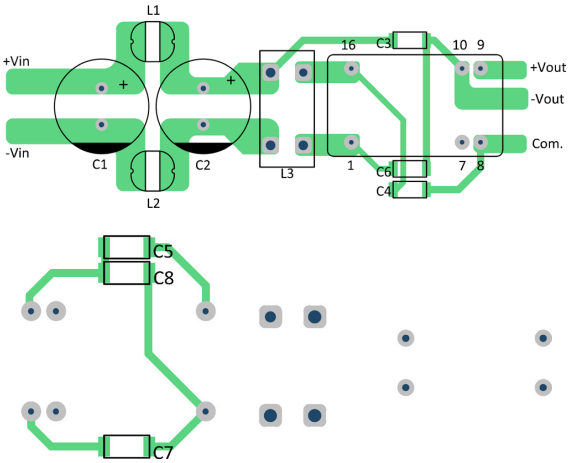
PCB layout suggestion



Dual output models



PCB layout suggestion (top/bottom)



Suggested components to comply with EN 55032 Conducted and Radiated Emissions Class B, EFT & Surge										
Model	**C1, C2**	**L1, L2**	**L3**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**L4**
TEL 15-4811WIN **TEL 15-4811WIN-HS**	220 µF 100 V KY	15 µH 1.53 A 89 mΩ 744774115	810-ACM121110 22PLTL1	1000 pF 2 kV 1808 X7R	680 pF 2 kV 1808 X7R	1500 pF 2 kV 1808 X7R	1000 pF 2 kV 1808 X7R	-	-	-
TEL 15-4812WIN **TEL 15-4812WIN-HS** **TEL 15-4813WIN** **TEL 15-4813WIN-HS** **TEL 15-4815WIN** **TEL 15-4815WIN-HS**		10 µH 2.2 A 78 mΩ 74477410	30 µH 1.4 A 60 mΩ 744273222	-		680 pF 2 kV 1808 X7R	-			30 µH 1.4 A 60 mΩ 744273222
TEL 15-482xWIN **TEL 15-482xWIN-HS**				680 pF 2 kV 1808 X7R	1000 pF 2 kV 1808 X7R	2200 pF 2 kV 1808 X7R	1500 pF 2 kV 1808 X7R	1200 pF 2 kV 1808 X7R	1500 pF 2 kV 1808 X7R	-