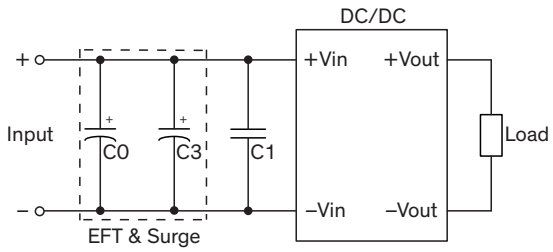
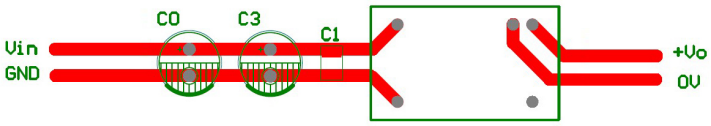
## EMI Consideration

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

**Single output models**

PCB layout suggestion

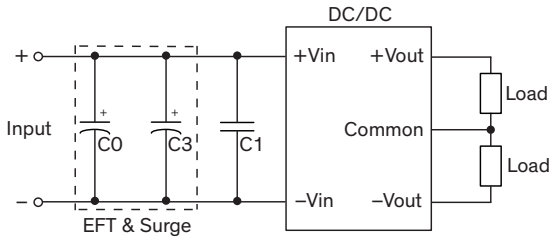


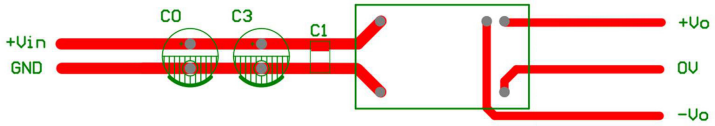




| Suggested components to comply with EN 55032 Class A limits, EFT & Surge | | | |
|---|---|---|---|
| **Model** | **EFT & Surge** | | **C1** |
| | **C0** | **C3** | |
| **TEL 6-091x** | 2200 µF / 50 V | 100 µF / 35 V | 22 µF / 50 V |
| **TEL 6-121x** | 470 µF / 100 V | 470 µF / 100 V | |
| **TEL 6-241x** | | | |
| **TEL 6-481x** | | | 10 µF / 100 V |

**Dual output models**

PCB layout suggestion



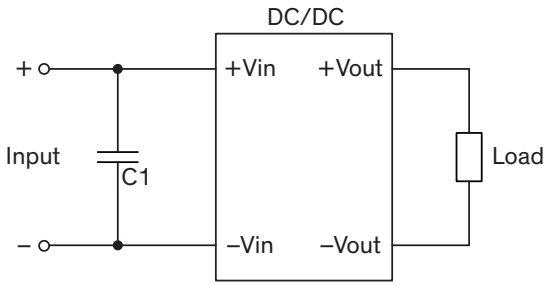



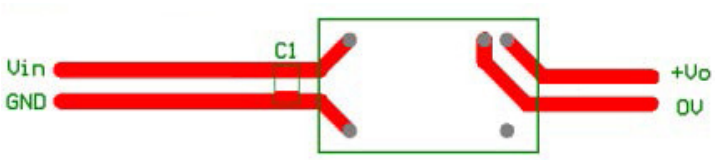

| Suggested components to comply with EN 55032 Class A limits, EFT & Surge | | | |
|---|---|---|---|
| **Model** | **EFT & Surge** | | **C1** |
| | **C0** | **C3** | |
| **TEL 6-092x**<br>**TEL 6-122x** | 2200 µF / 35 V | 2200 µF / 35 V | 10 µF / 50 V |
| **TEL 6-242x**<br>**TEL 6-482x** | 470 µF / 100 V | 470 µF / 100 V | 4.7 µF / 100 V |

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

### Single output models

PCB layout suggestion

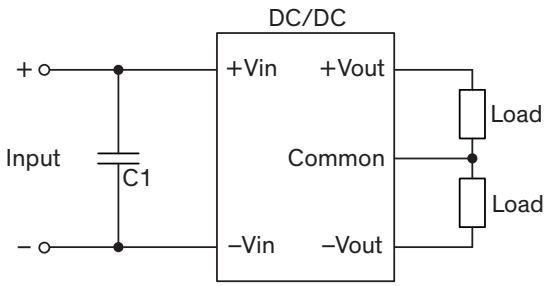


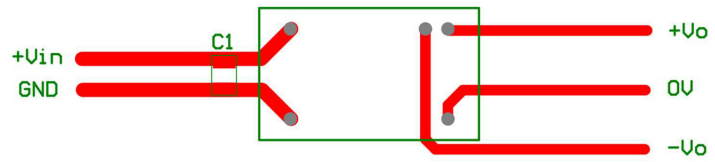




| Suggested components to comply with EN 55032 Class A limits | |
|---|---|
| **Model** | **C1** |
| **TEL 6-091x**<br>**TEL 6-121x**<br>**TEL 6-241x** | 22 µF / 50 V |
| **TEL 6-481x** | 10 µF / 100 V |

### Dual output models

PCB layout suggestion

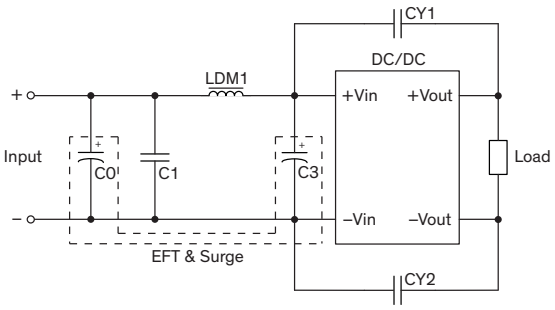


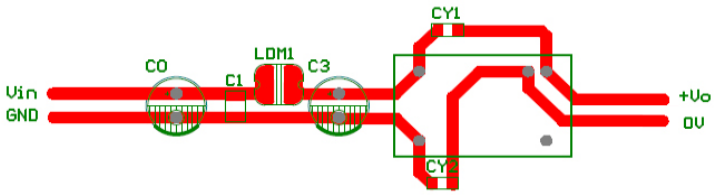

| Suggested components to comply with EN 55032 Class A limits | |
|---|---|
| **Model** | **C1** |
| **TEL 6-092x**<br>**TEL 6-122x** | 10 µF / 50 V |
| **TEL 6-242x**<br>**TEL 6-482x** | 4.7 µF / 100 V |

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

### Single output models

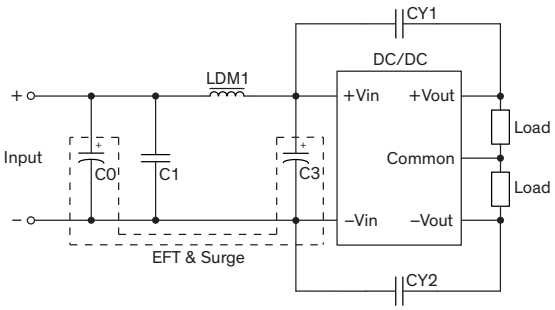



PCB layout suggestion

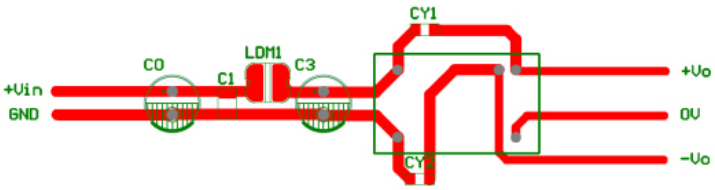



| Suggested components to comply with EN 55032 Class B limits, EFT & Surge | | | | | |
|---|---|---|---|---|---|
| **Model** | **EFT & Surge** | | **C1** | **LDM1** | **CY1, CY2** |
| | **C0** | **C3** | | | |
| **TEL 6-091x** | 2200 µF / 50 V | 100 µF / 35 V | 1 µF / 100 V | 4.7 µH | 1 nF / 2 kV |
| **TEL 6-121x**<br>**TEL 6-241x**<br>**TEL 6-481x** | 470 µF / 100 V | | | | |

### Dual output models



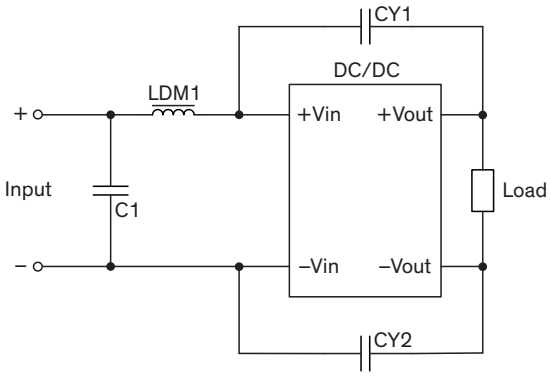

PCB layout suggestion



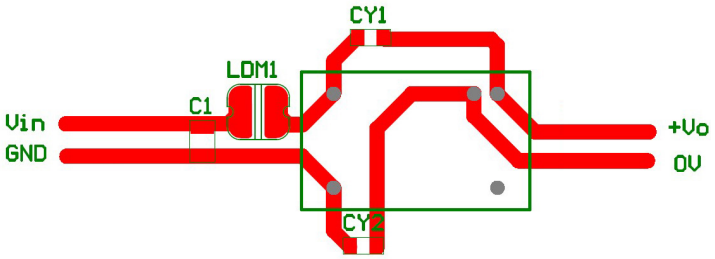

| Suggested components to comply with EN 55032 Class B limits, EFT & Surge | | | | | |
|---|---|---|---|---|---|
| **Model** | **EFT & Surge** | | **C1** | **LDM1** | **CY1, CY2** |
| | **C0** | **C3** | | | |
| **TEL 6-092x**<br>**TEL 6-122x** | 2200 µF / 35 V | | 1 µF / 100 V | 4.7 µH | 2.2 nF / 2 kV |
| **TEL 6-242x**<br>**TEL 6-482x** | 470 µF / 100 V | | | | |

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

### Single output models

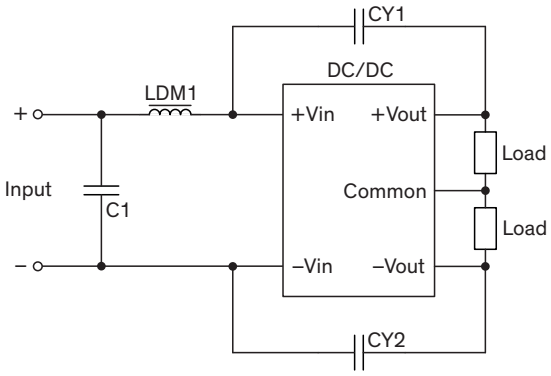



PCB layout suggestion

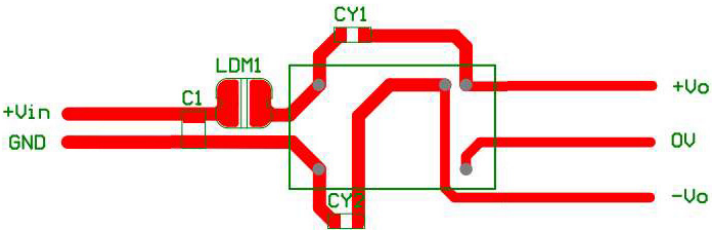



| Suggested components to comply with EN 55032 Class B limits | | | |
|---|---|---|---|
| **Model** | **C1** | **LDM1** | **CY1, CY2** |
| **TEL 6-091x**<br>**TEL 6-121x**<br>**TEL 6-241x**<br>**TEL 6-481x** | 1 µF / 100 V | 4.7 µH | 1 nF / 2 kV |

### Dual output models




PCB layout suggestion

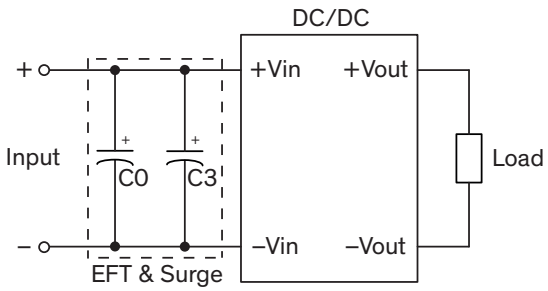



| Suggested components to comply with EN 55032 Class B limits | | | |
|---|---|---|---|
| **Model** | **C1** | **LDM1** | **CY1, CY2** |
| **TEL 6-092x**<br>**TEL 6-122x**<br>**TEL 6-242x**<br>**TEL 6-482x** | 1 µF / 100 V | 4.7 µH | 2.2 nF / 2 kV |

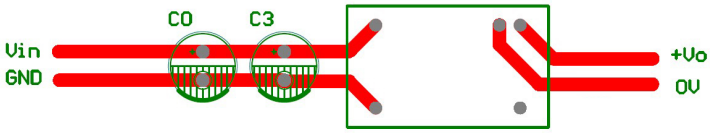
## EMS Consideration

### Suggested filter to comply with EN 61000-4-4 EFT & EN 61000-4-5 Surge

**Single output models**

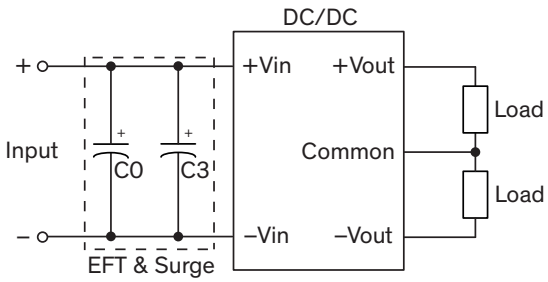



PCB layout suggestion

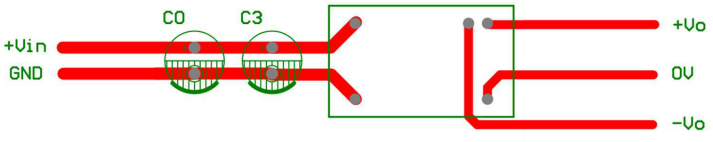



| Suggested components to comply with EN 61000-4-4 EFT & EN 61000-4-5 Surge | | |
|---|---|---|
| **Model** | **C0** | **C3** |
| **TEL 6-091x** | 2200 µF / 50 V | 100 µF / 35 V |
| **TEL 6-121x**<br>**TEL 6-241x**<br>**TEL 6-481x** | 470 µF / 100 V | 470 µF / 100 V |

**Dual output models**




PCB layout suggestion




| Suggested components to comply with EN 61000-4-4 EFT & EN 61000-4-5 Surge | | |
|---|---|---|
| **Model** | **C0** | **C3** |
| **TEL 6-092x**<br>**TEL 6-122x** | 2200 µF / 35 V | 2200 µF / 35 V |
| **TEL 6-242x**<br>**TEL 6-482x** | 470 µF / 100 V | 470 µF / 100 V |