**EMC/EMI line filter for lighting equipment**

- Voltage rating up to 350 VAC
- Current rating 2 A, 5 A and 8 A
- Offers attenuation fitting to lighting application
- Compact, space-saving design
- Cable outlets with enhanced length give freedom for flexible installation

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**Technical specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated operating voltage</td>
<td>350 VAC</td>
</tr>
<tr>
<td>Operating frequency</td>
<td>DC to 60 Hz</td>
</tr>
<tr>
<td>Rated currents</td>
<td>2 A, 5 A and 8 A @ 60°C</td>
</tr>
<tr>
<td>High potential test voltage</td>
<td>P → PE 3000 VDC for 2 sec</td>
</tr>
<tr>
<td></td>
<td>P → N 1500 VDC for 2 sec</td>
</tr>
<tr>
<td>Temperature range (operation and storage)</td>
<td>-40°C to 90°C (40/90/21)</td>
</tr>
<tr>
<td>Overvoltage category</td>
<td>II acc. IEC 60664-1</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>2 acc. IEC 60664-1</td>
</tr>
<tr>
<td>Certified to</td>
<td>UL 60939-3, CSA Std C22.2 No. 8, IEC/EN 60939-3, GB/T 15287, GB/T 15288</td>
</tr>
<tr>
<td>MTBF @ Rated amb. Temp./Voltage (MIL-HB-217F)</td>
<td>1,400,000 hours</td>
</tr>
</tbody>
</table>

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**Features and benefits**

- FN 2580 are specially developed for lighting application
- Offering high differential and common mode performance in low profile housing
- Cable outlets are flexible in terms of connection and make the assembly easy
- Voltage rating according to high voltage LED lighting market

**Typical applications**

- Lighting Equipment
- LED Driver
- Street Lamps
- Industrial Lighting
- Other applications with high demand for differential mode performance

**Typical electrical schematic**

![Typical electrical schematic](image)
## Filter selection table

<table>
<thead>
<tr>
<th>Filter</th>
<th>Rated current</th>
<th>Leakage current*</th>
<th>Inductance</th>
<th>Capacitance</th>
<th>Dis. Resistor</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[A]</td>
<td>[mA]</td>
<td>[mH]</td>
<td>[μH]</td>
<td>[μF]</td>
<td>[nF]</td>
</tr>
<tr>
<td>FN 2580-2-07</td>
<td>2</td>
<td>0.66</td>
<td>1.56</td>
<td>78</td>
<td>0.165</td>
<td>5</td>
</tr>
<tr>
<td>FN 2580-5-07</td>
<td>5</td>
<td>0.66</td>
<td>0.88</td>
<td>52</td>
<td>0.165</td>
<td>5</td>
</tr>
<tr>
<td>FN 2580-8-07</td>
<td>8</td>
<td>0.66</td>
<td>0.49</td>
<td>35</td>
<td>0.165</td>
<td>5</td>
</tr>
</tbody>
</table>

* Maximum leakage under usual AC operating conditions (acc. IEC 60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

## Typical filter attenuation

Per CISPR 17; DM=50 Ω/50 Ω sym, differential mode; CM=50 Ω/50 Ω asym, common mode

### 2 A type

![Typical filter attenuation 2 A type](image)

### 5 A type

![Typical filter attenuation 5 A type](image)

### 8 A type

![Typical filter attenuation 8 A type](image)

## Mechanical data

### Side View

![Side View](image)

### Top View

![Top View](image)

2 A : Lace Wire 18 AWG

5 A : Lace Wire 18 AWG

8 A : Lace Wire 16 AWG

WH = White ; BK = Black ; GNYE = Green Yellow

All dimensions in mm; 1 inch = 25.4 mm

Tolerances according: ISO 2768-m/EN 22768-m
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