EF Series

UL Recognized
CSA Certified
VDE Approved*

EF Series

• Compact single stage EMI filter with IEC 60320-1 C14 inlet
• Two element circuit provides basic attenuation
• Available with an internal ground-circuit inductor (C suffix versions) to isolate equipment chassis from power line ground at radio frequencies
• Superseded by the EEA Series

Ordering Information

3 EF 1F C

Ground Circuit Inductor
Omit if none

Output Styles
1F - .250 [6.3] spade terminals
(back)
2F - .250 [6.3] spade terminals
(bottom)
4 - Wire leads (bottom)
8 - Wire leads (back)

EF Series

Current Rating
1, 3, 6, 10 or 15A

Available Part Numbers

<table>
<thead>
<tr>
<th>1EF1F</th>
<th>1EF2F</th>
<th>1EF4</th>
<th>1EF8</th>
</tr>
</thead>
<tbody>
<tr>
<td>3EF1F</td>
<td>3EF2F</td>
<td>3EF4</td>
<td>3EF8</td>
</tr>
<tr>
<td>6EF1F</td>
<td>6EF2F</td>
<td>6EF4</td>
<td>6EF8</td>
</tr>
</tbody>
</table>

Ground Circuit Inductor Versions

<table>
<thead>
<tr>
<th>10EF1FC</th>
</tr>
</thead>
</table>

Specifications

Maximum leakage current each Line to Ground:
@ 120 VAC 60 Hz: 0.21 mA
@250 VAC 50 Hz: 0.36 mA

Hipot rating (one minute):
Line to Ground: 2250 VDC
Line to Line: 1450 VDC

Rated Voltage (max.): 250 VAC

Operating Frequency: 50/60 Hz

Rated Current: 1 to 15A*

Operating Ambient Temperature Range
(at rated current I_r):
-10°C to +40°C
In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: I_o = I_r \sqrt{\frac{85-\text{T_a}}{45}}

Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord

FA601: Insulating Shroud

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

For email, phone or live chat, please go to te.com/help corcom.com
EMI Power Inlet Filter (continued)

**EF Series**

**Electrical Schematic**

![EF Series Electrical Schematic Diagram](image)

**Case Styles**

**EF1F & EF1FC**

![EF1F & EF1FC Case Style Diagram](image)

**EF2F**

![EF2F Case Style Diagram](image)

**EF4**

![EF4 Case Style Diagram](image)

**EF8**

![EF8 Case Style Diagram](image)

**Case Dimensions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A (max.)</th>
<th>B (max.)</th>
<th>C (max.)</th>
<th>D ±.015 (max.)</th>
<th>E (max.)</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1EF1F, 3EF1F, 6EF1F</td>
<td>2.21</td>
<td>1.19</td>
<td>0.81</td>
<td>1.575</td>
<td>1.98</td>
<td>-</td>
</tr>
<tr>
<td>1EF2F, 3EF2F, 6EF2F</td>
<td>1.55</td>
<td>1.19</td>
<td>0.85</td>
<td>1.575</td>
<td>1.98</td>
<td>-</td>
</tr>
<tr>
<td>1EF4, 3EF4, 6EF4</td>
<td>1.55</td>
<td>1.19</td>
<td>0.85</td>
<td>1.575</td>
<td>1.98</td>
<td>.295</td>
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<td>1EF8, 3EF8, 6EF8</td>
<td>1.55</td>
<td>1.19</td>
<td>0.81</td>
<td>1.575</td>
<td>1.98</td>
<td>.295</td>
</tr>
<tr>
<td>10EF1F, 10EF1FC</td>
<td>2.62</td>
<td>1.19</td>
<td>0.81</td>
<td>1.575</td>
<td>1.98</td>
<td>-</td>
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<tr>
<td>15EF1F</td>
<td>66.5</td>
<td>30.2</td>
<td>20.6</td>
<td>40.01</td>
<td>50.3</td>
<td>-</td>
</tr>
</tbody>
</table>

**Recommended Panel Cutouts**

**Front Mount**

![EF Front Mount Cutout Diagram](image)

**Back Mount**

![EF Back Mount Cutout Diagram](image)

Note 1: EF1F, EF1FC and EF8 allow for front or back mounting.

Note 2: EF2F and EF4 allow for back mounting only.

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EF Series

Performance Data

Typical Insertion Loss
Measured in closed 50 Ohm system

Minimum Insertion Loss
Measured in closed 50 Ohm system

<table>
<thead>
<tr>
<th>Current Rating</th>
<th>EF1F, EF2F</th>
<th>EF4, EF8</th>
<th>EF1FC</th>
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</thead>
<tbody>
<tr>
<td>1A</td>
<td>22 35 40 46 50 49</td>
<td>22 35 40 46 50 49</td>
<td>10A 8 15 20 34 39 44</td>
</tr>
<tr>
<td>3A</td>
<td>15 25 30 45 50 54</td>
<td>15 25 30 45 50 54</td>
<td>10A 8 15 20 34 39 44</td>
</tr>
<tr>
<td>6A</td>
<td>9 20 25 41 45 50</td>
<td>9 20 25 41 45 47</td>
<td>15A - 6 12 20 25 25</td>
</tr>
<tr>
<td>10A</td>
<td>8 15 20 34 39 44</td>
<td>8 15 20 34 39 44</td>
<td>10A 8 15 20 34 39 44</td>
</tr>
<tr>
<td>15A</td>
<td>- 6 12 20 25 25</td>
<td>- 6 12 20 25 25</td>
<td>- 6 12 20 25 25</td>
</tr>
</tbody>
</table>

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