Corcom Product Guide

## EMI Power Inlet Filter

## EF Series

## 께아

## 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- Superseded by the EEA Series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

| 1EF1F | 1EF2F | 1EF4 | 1EF8 |
| :---: | :---: | :---: | :---: |
| 3EF1F | 3EF2F | 3EF4 | 3EF8 |
| 6EF1F | 6EF2F | 6EF4 | 6EF8 |
| 1OEF1F |  |  |  |
| 15EF1F |  |  |  |

Ground Circuit Inductor Versions

| 10EF1FC |  |  |  |
| :--- | :--- | :--- | :--- |

## Specifications

Maximum leakage current each Line to Ground:
@ 120 VAC 60 Hz :
.21 mA
@250 VAC 50 Hz :
.36 mA

Hipot rating (one minute):
Line to Ground: 2250 VDC
Line to Line: 1450 VDC
Rated Voltage (max.): 250 VAC
Operating Frequency: $50 / 60 \mathrm{~Hz}$
Rated Current:
1 to 15A*

## Operating Ambient Temperature Range

(at rated current $\mathrm{I}_{\mathrm{r}}$ ):
$-10^{\circ} \mathrm{C}$ to $+40^{\circ} \mathrm{C}$
In an ambient temperature ( $\mathrm{T}_{\mathrm{a}}$ ) higher than $+40^{\circ} \mathrm{C}$
the maximum operating current ( $I_{0}$ ) is calculated as
follows: $I_{O}=I_{r} \sqrt{(85-\mathrm{Ta}) / 45}$

## Accessories

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


FA601: Insulating Shroud

*15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC

Corcom Product Guide
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## EMI Power Inlet Filter (continued)

## EF Series

## Electrical Schematic



Note 1: C Suffix (ground choke) versions only

## Case Styles

EF1F \& EF1FC


Typical Dimensions:

$$
\begin{aligned}
& \text { Line Inlet (1): } \\
& \text { Load Terminals (2): } \\
& \text { Ground Terminal (1): }
\end{aligned}
$$

IEC 60320-1 C14
.250 [6.3] with . 07 [1.8] Dia. hole $.250[6.3]$ with $.07 \times .16[1.8 \times 3.8]$ slot

EF2F


Typical Dimensions:
Line Inlet (1): Load Terminals (2): Ground Terminal (1):

IEC 60320-1 C14
250 [6.3] with .07 [1.8] Dia. hole
$.250[6.3]$ with $.07 \times .16[1.8 \times 3.8]$ slot

EF4


IEC 60320-1 C14 4.0 [101.6] Min., 18AWG, UL1015

EF8


IEC 60320-1 C14
4.0 [101.6] Min., 18AWG, UL1015

## EMI Power Inlet Filter (continued)

## EF Series

## Performance Data

## Typical Insertion Loss

Measured in closed 50 Ohm system


## Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current | Frequency $-\mathbf{M H z}$ |  |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rating | $\mathbf{. 1 5}$ | $\mathbf{. 5}$ | $\mathbf{1}$ | $\mathbf{5}$ | $\mathbf{1 0}$ | $\mathbf{3 0}$ |
| EF1F, EF2F |  |  |  |  |  |  |
| 1A | 22 | 35 | 40 | 46 | 50 | 49 |
| 3 A | 15 | 25 | 30 | 45 | 50 | 54 |
| 6A | 9 | 20 | 25 | 41 | 45 | 50 |
| 10A | 8 | 15 | 20 | 34 | 39 | 44 |
| $15 A$ | - | 6 | 12 | 20 | 25 | 25 |
| EF4, EF8 |  |  |  |  |  |  |
| 1A | 22 | 35 | 40 | 46 | 50 | 49 |
| 3A | 15 | 25 | 30 | 45 | 50 | 54 |
| 6A | 9 | 20 | 25 | 41 | 45 | 47 |
| EF1FC | 8 | 15 | 20 | 34 | 39 | 44 |
| 10 A | 8 |  |  |  |  |  |

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