## EJH Series

## EJH Series

The new EJH series is the next generation of medical power inlet filters. The $1-15 \mathrm{amp}$ versions are flange mounted and mechanically equivalent to the EAH/EBH series. The performance has been enhanced to meet the needs for more attenuation. The EJH also has an extended metal flange around the socket for improved high frequency EMI shielding as well as a larger contact area for the panel ground. These medical filters are designed to provide common and differential mode performance while maintaining the UL leakage requirements for medical and dental equipment.

The EJH series also includes a 20 amp version that uses the inlet IEC 320/C20. This product was designed to keep up with the demand for higher current equipment. Applications include higher current power supplies and computing equipment, which consist of work stations, base stations, servers, etc.

## Electrical Schematic



Resistor location for reference only.


## Specifications

Maximum leakage current, each line-to-ground

| @120 VAC $60 \mathrm{~Hz}:$ | $2 \mu \mathrm{~A}$ |
| :--- | :--- |
| @ 250 VAC $50 \mathrm{~Hz}:$ | $5 \mu \mathrm{~A}$ |

Hipot rating (one minute):
line-to-ground 1500 VAC
line-to-line 1450 VDC
Operating frequency:
$50 / 60 \mathrm{~Hz}$
Rated voltage (max.): 250 VAC
Minimum insertion loss in dB:
Line-to-ground in 50 ohm circuit

| Current <br> Rating | Frequency-MHz |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | . 01 | . 05 | . 1 | . 15 | . 5 | 1 | 5 | 10 | 30 |
| 1A | 13 | 26 | 33 | 36 | 41 | 41 | 31 | 26 | 18 |
| 3A | - | 9 | 15 | 19 | 27 | 31 | 30 | 26 | 20 |
| 6A | - | 2 | 6 | 9 | 20 | 22 | 31 | 20 | 18 |
| 10A | - | 1 | 4 | 7 | 12 | 17 | 19 | 18 | 18 |
| 15A | - | - | 1 | 2 | 3 | 3 | 4 | 2 | 2 |
| 20A | - | - | 3 | 5 | 14 | 16 | 12 | 11 | 11 |

Line-to-line in 50 ohm circuit

| Current <br> Rating | Frequency-MHz |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | . 01 | . 05 | . 1 | . 15 | . 5 | 1 | 5 | 10 | 30 |
| 1A | - | - | 5 | 8 | 19 | 27 | 45 | 36 | 32 |
| 3A | - | - | 5 | 8 | 17 | 23 | 31 | 32 | 30 |
| 6A | - | - | 5 | 8 | 17 | 21 | 32 | 30 | 30 |
| 10A | - | - | 5 | 8 | 17 | 22 | 32 | 30 | 30 |
| 15A | - | - | 5 | 8 | 17 | 23 | 36 | 38 | 40 |
| 20A | - | - | 5 | 8 | 19 | 24 | 35 | 33 | 28 |


| Catalog 1654001 | Dimensions are in inches and | Dimensions are shown for | USA Qust. Svc.: $1-800-468-2023$ | wuw.cor.com |
| :--- | :--- | :--- | :--- | :--- |
| Revised 03-04 | millimeters unless otherwise | reference purposes only. | COROMM Prods: $1-847-680-7400$ | www.tycoelectronics.com |
|  | specified. Values in italics | Specifications subject | Germany: | $1-508-992-4495$ |

## EJH Series

Case Styles
EJH1 (1-15 amp versions)


20EJH1


EJH2


EJHP


## 20EJH8



Case Dimensions

| Part No. | $\begin{gathered} \mathrm{A} \\ (\max ) \end{gathered}$ | $\begin{gathered} \mathrm{B} \\ (\max ) \end{gathered}$ | $\underset{(\max )}{\mathrm{C}}$ | $\begin{gathered} \text { D } \\ \pm .015 \\ \hline \pm .38 \end{gathered}$ | $\underset{(\max )}{\mathrm{E}}$ | $\begin{gathered} \mathrm{F} \\ (\mathrm{ref}) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1EJH1, 3EJH1, 6EJH1, 10EJH1, 15EJH1 | $\begin{aligned} & 2.15 \\ & 54.61 \end{aligned}$ | 1.20 30.48 | $\begin{aligned} & 0.96 \\ & 24.38 \end{aligned}$ | 1.58 40.00 | $\begin{gathered} 2.04 \\ 51.76 \end{gathered}$ |  |
| 20EJH1 | $\begin{gathered} 3.13 \\ 79.38 \end{gathered}$ | $\begin{gathered} 1.37 \\ 34.79 \end{gathered}$ | $\begin{aligned} & 1.18 \\ & 29.99 \end{aligned}$ | $\begin{gathered} 1.65 \\ 42.01 \end{gathered}$ | $\begin{gathered} 2.09 \\ 53.00 \end{gathered}$ |  |
| 1EJH2, 3EJH2, 6EJH2, 10EJH2 | $\begin{gathered} 1.54 \\ 39.12 \end{gathered}$ | $\begin{gathered} 1.13 \\ 28.70 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline 0.96 \\ & 24.38 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.58 \\ & 40.00 \\ & \hline \end{aligned}$ | $\begin{gathered} 2.04 \\ 51.76 \end{gathered}$ |  |
| 15EJH2 | $\begin{aligned} & 1.79 \\ & 45.47 \end{aligned}$ | $\begin{aligned} & 1.13 \\ & 28.70 \end{aligned}$ | $\begin{aligned} & 0.96 \\ & 24.38 \end{aligned}$ | $\begin{aligned} & 1.58 \\ & 40.00 \end{aligned}$ | $\begin{gathered} 2.04 \\ 51.76 \end{gathered}$ |  |
| $\begin{aligned} & \hline \text { 1EJHP, 3EJHP, } \\ & \text { 6EJHP, 10EJHP } \end{aligned}$ | $\begin{gathered} \mathbf{1 . 5 4} \\ 39.12 \end{gathered}$ | 1.13 28.70 | $\begin{aligned} & \hline 0.96 \\ & 24.38 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1.58 \\ & 40.00 \\ & \hline \end{aligned}$ | $\begin{gathered} 2.04 \\ 51.76 \\ \hline \end{gathered}$ |  |
| 15EJHP | $\begin{aligned} & 1.79 \\ & 45.47 \end{aligned}$ | $\begin{aligned} & 1.13 \\ & 28.70 \end{aligned}$ | $\begin{aligned} & 0.96 \\ & 24.38 \end{aligned}$ | $\begin{aligned} & 1.58 \\ & 40.00 \end{aligned}$ | $\begin{gathered} 2.04 \\ 51.76 \end{gathered}$ |  |
| 20EJH8 | $\begin{gathered} 2.65 \\ 67.31 \end{gathered}$ | $\begin{gathered} 1.35 \\ 34.29 \end{gathered}$ | $\begin{gathered} 1.18 \\ 29.99 \end{gathered}$ | $\begin{aligned} & 1.65 \\ & 42.01 \end{aligned}$ | $\begin{gathered} 2.09 \\ 53.00 \end{gathered}$ | $\begin{gathered} .62 \\ 15.75 \end{gathered}$ |

## Part Numbers

| 1EJH1 | 10EJH1 |
| :--- | :--- |
| 1EJH2 | 10EJH2 |
| 1EJHP | 10EJHP |
| 3EJH1 | 15EJH1 |
| 3EJH2 | 15EJH2 |
| 3EJHP | 15EJHP |
| 6EJH1 | 20EJH1* |
| 6EJH2 | 20EJH8* |

Line Cord No. (1-15A) GA400
Insulating Boot (1-15A) FA601
*UL, CSA - 20 Amp; VDE - 16 Amp

## Recommended Panel Cutouts

1 to 15A EJH - all terminal types
Front mount only applicable to type 1 terminals


Panel Cutout (front mount) Tolerance $\pm .005$ [0.13]

20EJH


Panel Cutout (front mount)
Tolerance $\pm .005$ [0.13]


Panel Cutout (back mount) Tolerance $\pm .005$ [0.13]

