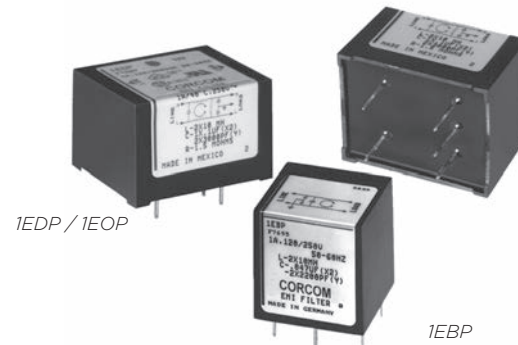


## PC Board Mountable General Purpose RFI Filters

# EBP, EDP & EOP Series



UL Recognized\*  
CSA Certified\*  
VDE Approved\*



## EBP Series

- General purpose
- Low leakage current
- Cost-effective
- Compact size

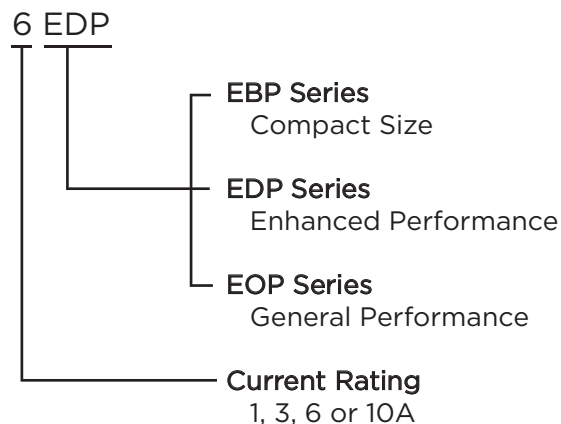
## EDP Series

- Enhanced differential mode performance
- Low leakage current
- Cost-effective

## EOP Series

- General purpose
- Low leakage current
- Cost-effective

## Ordering Information



\*EBP models are approved to VDE standards only

## Specifications

Maximum leakage current each Line to Ground:

|                  | EDP/EOP | EBP    |
|------------------|---------|--------|
| @ 120 VAC 60 Hz: | .22 mA  | .13 mA |
| @ 250 VAC 50 Hz: | .38 mA  | .21 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

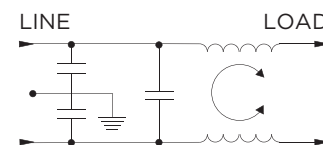
Rated Current: 1 to 10A

Operating Ambient Temperature Range

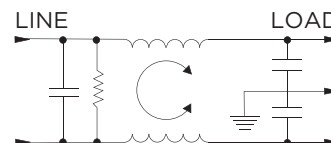
(at rated current  $I_r$ ): -10°C to +40°C  
In an ambient temperature ( $T_a$ ) higher than +40°C  
the maximum operating current ( $I_o$ ) is calculated as  
follows:  $I_o = I_r \sqrt{(85-T_a)/45}$

## Electrical Schematic

### EBP



### EDP & EOP



## Available Part Numbers

|       |       |
|-------|-------|
| 1EBP  | 3EBP  |
| 1EDP  | 1EOP  |
| 3EDP  | 3EOP  |
| 6EDP  | 6EOP  |
| 10EDP | 10EOP |

1

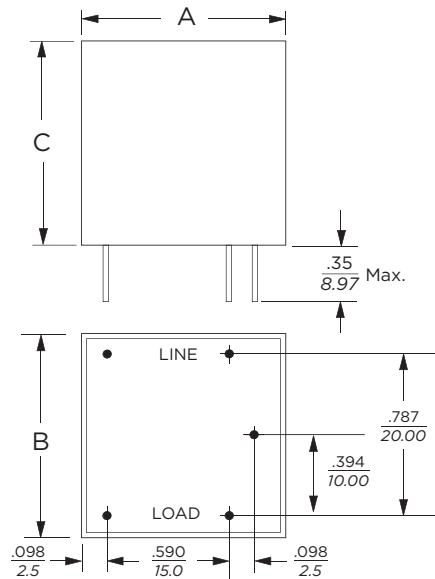
RFI Power Line Filters

## PC Board Mountable General Purpose RFI Filters *(continued)*

# EBP, EDP, EOP Series

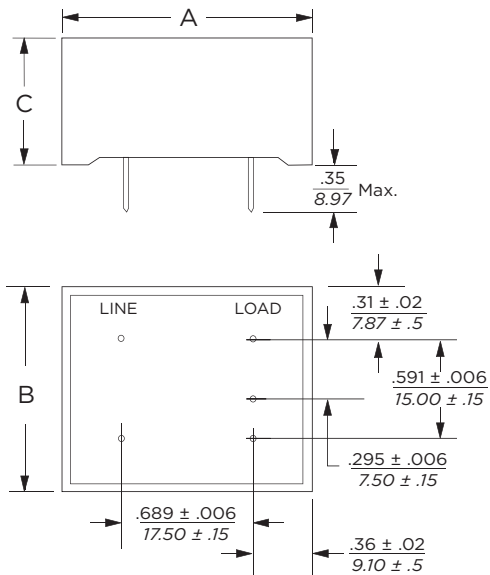
## Case Styles

### EBP



Typical Dimensions:  
Pins (5): 0.025 [0.635] square

### EDP / EOP



Typical Dimensions:  
Pins (5): 0.025 [0.635] square

## Case Dimensions

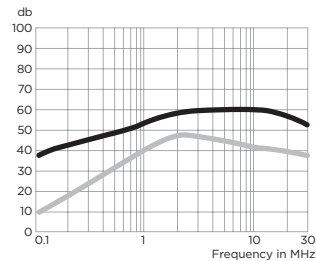
| Part No. | A<br>(max)   | B<br>(max)   | C<br>(max)    |
|----------|--------------|--------------|---------------|
| EBP      | .984<br>25.0 | .984<br>25.0 | .984<br>25.0  |
| EDP      | 1.44<br>36.6 | 1.24<br>31.5 | 0.95<br>24.15 |
| EOP      | 1.44<br>36.6 | 1.24<br>31.5 | 0.78<br>19.9  |

## Performance Data

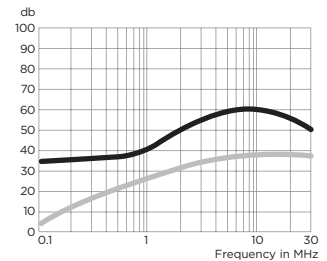
### Typical Insertion Loss

Measured in closed 50 Ohm system

#### 1EBP



#### 3EBP



— Common Mode / Asymmetrical (L-G)  
— Differential Mode / Symmetrical (L-L)

## PC Board Mountable General Purpose RFI Filters *(continued)*

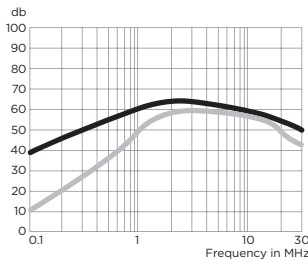
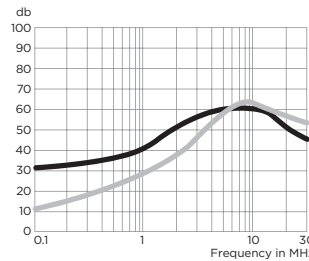
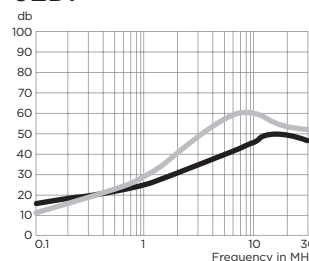
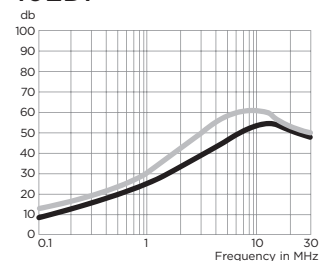
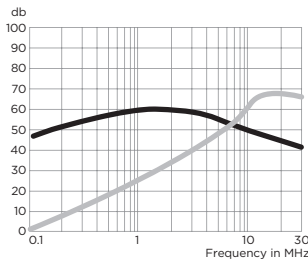
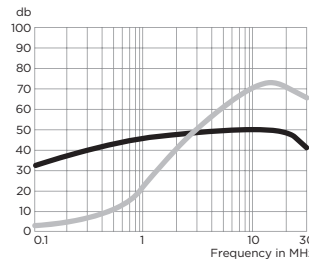
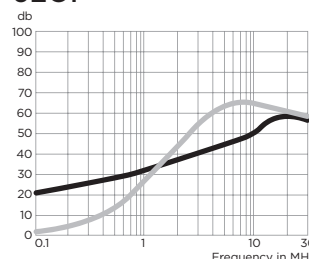
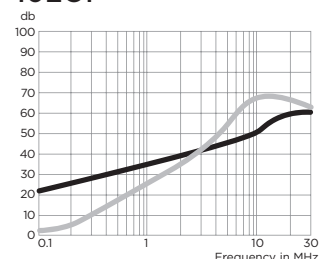
# EBP, EDP & EOP Series

## Performance Data *(continued)*

### Typical Insertion Loss

Measured in closed 50 Ohm system

— Common Mode / Asymmetrical (L-G)  
— Differential Mode / Symmetrical (L-L)

**1EDP**

**3EDP**

**6EDP**

**10EDP**

**1EOP**

**3EOP**

**6EOP**

**10EOP**


## Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current Rating    | Frequency – MHz |    |    |    |    |    |
|-------------------|-----------------|----|----|----|----|----|
|                   | .15             | .5 | 1  | 5  | 10 | 30 |
| <b>EBP Models</b> |                 |    |    |    |    |    |
| 1A                | 30              | 40 | 40 | 42 | 45 | 45 |
| 3A                | 24              | 29 | 30 | 42 | 45 | 45 |
| <b>EOP Models</b> |                 |    |    |    |    |    |
| 1A                | 32              | 41 | 54 | 54 | 46 | 40 |
| 3A                | 18              | 28 | 35 | 41 | 40 | 40 |
| 6A                | 10              | 20 | 28 | 37 | 40 | 40 |
| 10A               | 5               | 14 | 19 | 27 | 33 | 40 |
| <b>EDP Models</b> |                 |    |    |    |    |    |
| 1A                | 32              | 41 | 54 | 54 | 46 | 40 |
| 3A                | 18              | 28 | 35 | 41 | 40 | 40 |
| 6A                | 10              | 20 | 28 | 37 | 40 | 40 |
| 10A               | 5               | 14 | 19 | 27 | 33 | 40 |

Differential Mode / Symmetrical (Line to Line)

| Current Rating  | Frequency – MHz |    |    |    |    |    |    |    |
|-----------------|-----------------|----|----|----|----|----|----|----|
|                 | .15             | .5 | 1  | 5  | 10 | 30 |    |    |
| EBP Models      |                 |    |    |    |    |    |    |    |
| 1A              | -               | 14 | 25 | 35 | 33 | 25 |    |    |
| 3A              | -               | 14 | 15 | 31 | 34 | 25 |    |    |
| EOP Models      |                 |    |    |    |    |    |    |    |
| 1A              | 4               | 14 | 42 | 42 | 44 | 38 |    |    |
| 3A              | 4               | 14 | 24 | 38 | 38 | 38 |    |    |
| 6A              | 4               | 14 | 22 | 30 | 34 | 34 |    |    |
| 10A             | 6               | 16 | 22 | 40 | 50 | 45 |    |    |
| Frequency – MHz |                 |    |    |    |    |    |    |    |
| EDP Models      | .15             | .5 | 1  | 2  | 4  | 10 | 20 | 30 |
|                 |                 |    |    |    |    |    |    |    |
| 1A              | 1               | 6  | 19 | 39 | 48 | 52 | 38 | 35 |
| 3A              | 1               | 4  | 9  | 9  | 28 | 41 | 36 | 35 |
| 6A              | 1               | 4  | 9  | 9  | 40 | 40 | 42 | 35 |
| 10A             | 1               | 4  | 9  | 9  | 14 | 35 | 42 | 35 |