

**PC Board Mountable General Purpose RFI Filters**

# EBP, EDP & EOP Series



UL Recognized<sup>†</sup>  
CSA Certified<sup>†</sup>  
VDE Approved<sup>†</sup>



## EBP Series

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

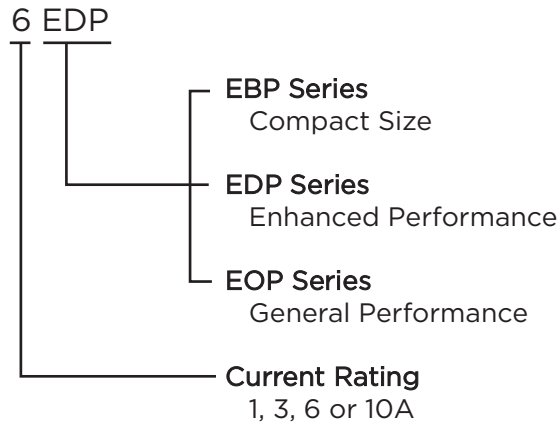
## EDP Series

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

## EOP Series

- General purpose
- Low leakage current
- Cost effective

## Ordering Information



<sup>†</sup> 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

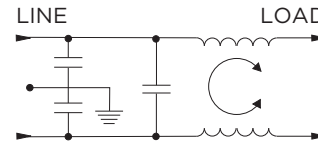
Operating Ambient Temperature Range

(at rated current  $I_r$ ): -10°C to +40°C

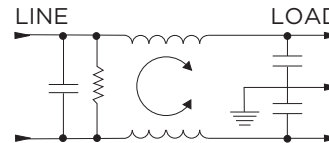
In an ambient temperature ( $T_a$ ) higher than +40°C the maximum operating current ( $I_o$ ) is calculated as follows:  $I_o = I_r \sqrt{(85-T_a)/45}$

## Electrical Schematic

### EBP



### EDP & EOP



## Available Part Numbers

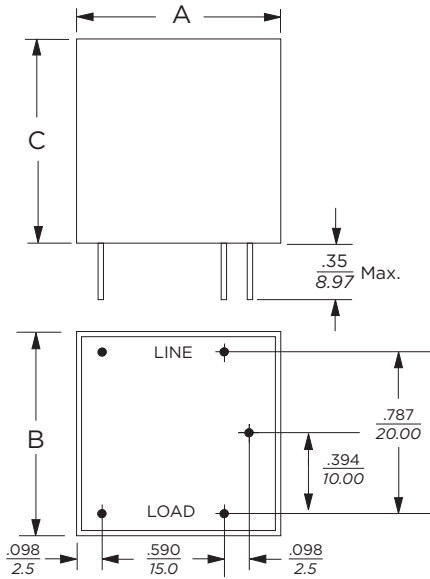
1EBP	3EBP
1EDP	1EOP
3EDP	3EOP
6EDP	6EOP
10EDP	10EOP

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

# EBP, EDP, EOP Series

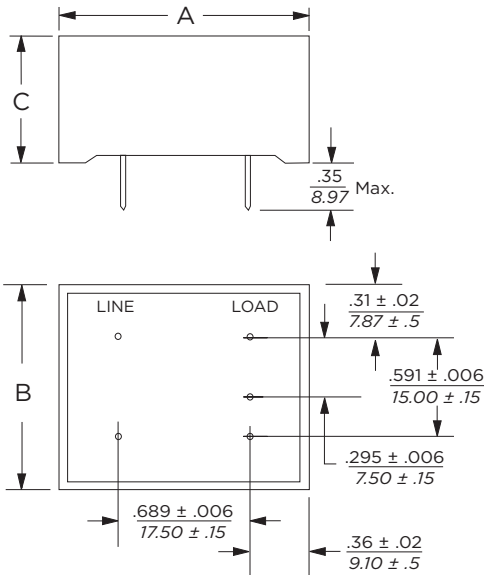
## Case Styles

### EBP



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

### EDP / EOP



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

## Case Dimensions

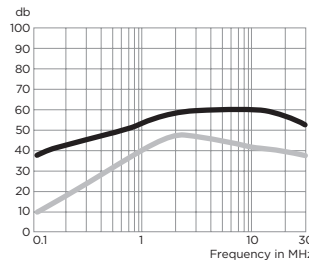
Part. No.	A (max)	B (max)	C (max)
EBP	<b>.984</b> 25.0	<b>.984</b> 25.0	<b>.984</b> 25.0
EDP	<b>1.44</b> 36.6	<b>1.24</b> 31.5	<b>0.95</b> 24.15
EOP	<b>1.44</b> 36.6	<b>1.24</b> 31.5	<b>0.78</b> 19.9

## Performance Data

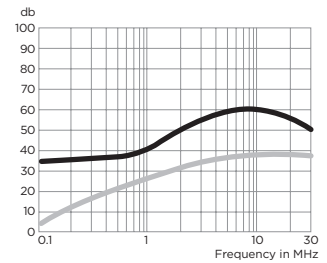
### Typical Insertion Loss

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

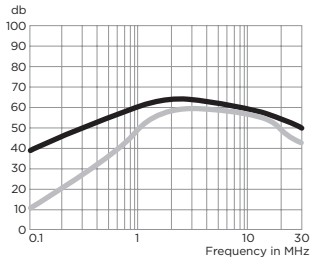
**Performance Data** *(continued)*

**Typical Insertion Loss**

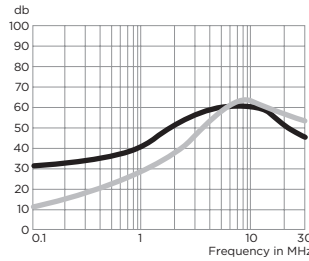
Measured in closed 50 ohm system

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

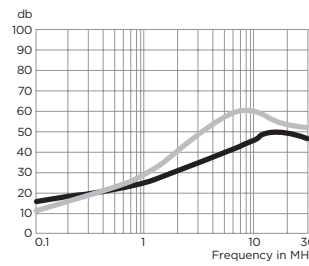
**1EDP**



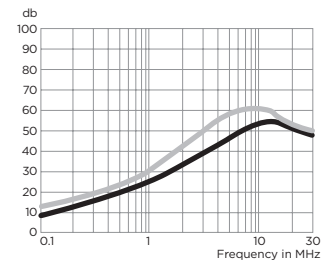
**3EDP**



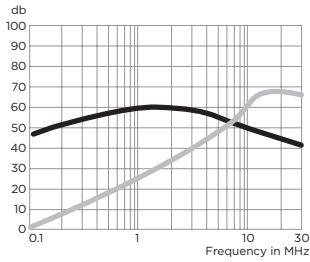
**6EDP**



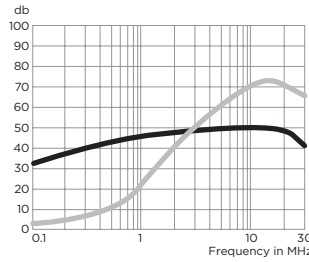
**10EDP**



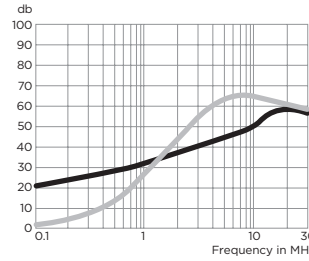
**1EOP**



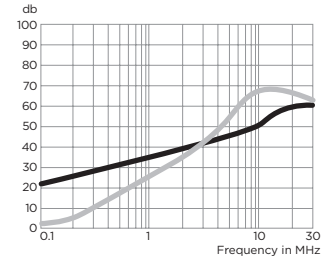
**3EOP**



**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		
<b>EBP Models</b>								
1A	-	14	25	35	33	25		
3A	-	14	15	31	34	25		
<b>EOP Models</b>								
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		
<b>EDP Models</b>								
	Frequency – MHz							
	.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