

# X, Y, Z Series

**PC Board Mountable  
RFI Power Line Filters  
for Emission Control Applications**



**UL Recognized  
CSA Certified  
VDE Approved**

## X, Y, and Z Series

X, Y, and Z series RFI filters are compact, PC board mountable components, designed to consume minimal board space. They provide a choice of three levels of performance, intended to be all the power line filter needed for the corresponding emission control application.

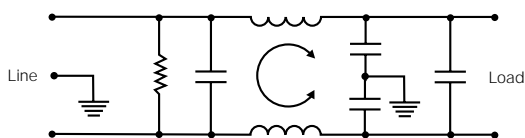
**X Series** – designed to bring most digital equipment (including switching power supplies) into compliance with FCC Part 15J, Class B conducted emission limits.

**Y Series** – designed to bring most digital equipment (including switching power supplies) into compliance with EN55022, Level A, and FCC Part 15J, Class B conducted emission limits.

**Z Series** – designed to bring most digital equipment (including switching power supplies) into compliance with EN55022, Level B (as well as FCC Part 15J, Class B) conducted emission limits.

This high compliance confidence level is attained by optimizing the differential mode performance of each series for the frequency range it needs to cover in the corresponding application. At the same time, excellent common mode performance is maintained across the frequency range of 10kHz to 30MHz, while still meeting the very low leakage current requirements of SEV and VDE portable equipment.

## Electrical Schematic



Resistor location for reference only.



XP/ YP/ZP



3EX1/3EZ1

## Specifications

Maximum leakage current, each  
line-to-ground @ 120 VAC 60 Hz: .30 mA  
@ 250 VAC 50 Hz: .50 mA

Hipot rating (one minute):  
line-to-ground 2250 VDC  
line-to-line 1450 VDC

Operating frequency: 50/60 Hz

Rated voltage: 120/250 VAC

Rated current:	@ 120 VAC		@ 250 VAC	
	(60°C ambient)			
1EYP	1A	.75A		
2EYP/2EYP	2A	1.5A		
3EXP/3EYP/3EYP	3A	2A		
4EXP/4EYP	4A	3A		
6EXP	6A	4A		

**Minimum** insertion loss in dB:  
Line-to-ground in 50 ohm circuit

Frequency MHz	EX			EY			EZ		
	3A	4A	6A	2A	3A	4A	1A	2A	3A
.01	2	2	2	8	11	5	18	18	15
.05	13	13	11	21	24	18	32	32	29
.15	21	22	20	31	36	28	43	45	39
.5	35	37	35	49	43	45	47	41	43
1	46	44	40	44	40	40	44	40	42
5	44	44	40	40	40	40	43	40	40
10	44	44	40	40	40	40	43	40	40
30	44	38	36	40	40	36	45	40	40

Line-to-line in 50 ohm circuit

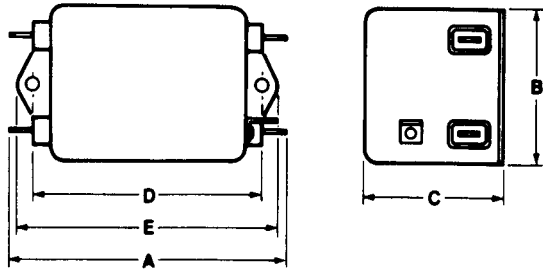
Frequency MHz	EX			EY			EZ		
	3A	4A	6A	2A	3A	4A	1A	2A	3A
.02	-	-	-	-	-	-	7	2	-
.03	-	-	-	-	-	-	19	15	10
.05	-	-	-	10	10	6	34	31	26
.07	5	10	3	19	20	18	43	40	34
.15	34	37	31	40	42	41	62	57	53
.5	60	70	65	70	68	67	70	75	75
1	65	70	70	75	68	75	70	70	75
5	60	70	70	70	67	70	70	65	70
10	45	65	60	60	62	65	60	55	60
30	50	55	55	55	50	55	55	50	55

# Series X, Y, Z

## Case Styles

Metric shown in italics.

### EX1/EZ1

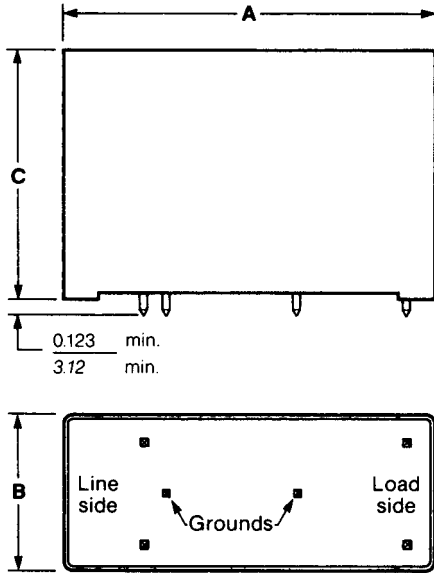


Typical dimensions

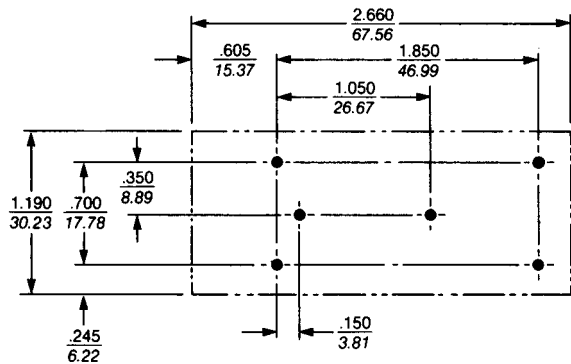
Terminals:  $\frac{.250}{6.35}$  (5) Holes:  $\frac{.07}{1.8}$  Dia. (4) Slot:  $\frac{.07 \times .16}{1.8 \times 4.1}$

Mounting holes:  $\frac{.188}{4.78}$  Dia. (2)

### EXP/EYP/EZP



### Recommended Mounting Holes and Clearance Area



Tolerance  $\pm .006$   
 $.152$

Holes:  $\frac{.075}{1.91}$  Dia. (6)

## Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
3EXP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.62}{41.1}$		
3EX1	$\frac{3.01}{76.7}$	$\frac{1.84}{46.8}$	$\frac{1.16}{29.46}$	$\frac{2.375}{60.33}$	$\frac{2.79}{70.87}$
4EXP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.62}{41.1}$		
6EXP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.75}{44.5}$		
2EYP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.62}{41.1}$		
3EYP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.75}{44.5}$		
4EYP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.75}{44.5}$		
1EZP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.62}{41.1}$		
2EZP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.75}{44.5}$		
3EZP	$\frac{2.61}{66.3}$	$\frac{1.13}{28.7}$	$\frac{1.75}{44.5}$		
3EZ1	$\frac{3.54}{89.9}$	$\frac{2.08}{52.8}$	$\frac{1.31}{33.3}$	$\frac{2.938}{74.63}$	$\frac{3.35}{85.1}$

## Pricing

Consult your local Corcom sales representative for pricing.

Part No.	Part No.
3EXP	1EZP
3EX1	2EZP
4EXP	3EZP
6EXP	3EZ1
2EYP	
3EYP	
4EYP	

X  
Y  
Z  
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