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.

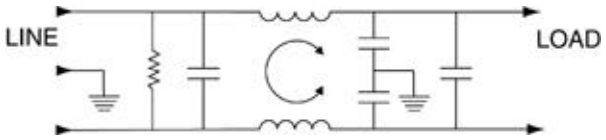
X Series – designed to bring most digital equipment (including switching power supplies) into compliance with FCC Part 15J, Class B conducted emission limits.

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.

3EX1/3EZ1

XP/ YP/ZP

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

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

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

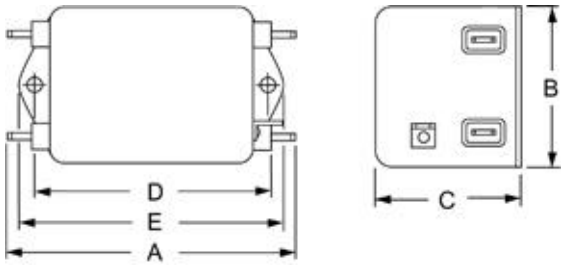
Line-to-ground in 50 ohm circuit

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

Case Styles

Metric shown in italics.

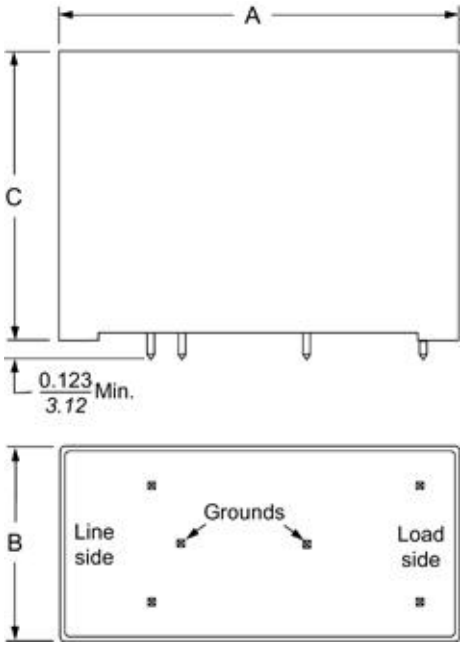
EX1/EZ1



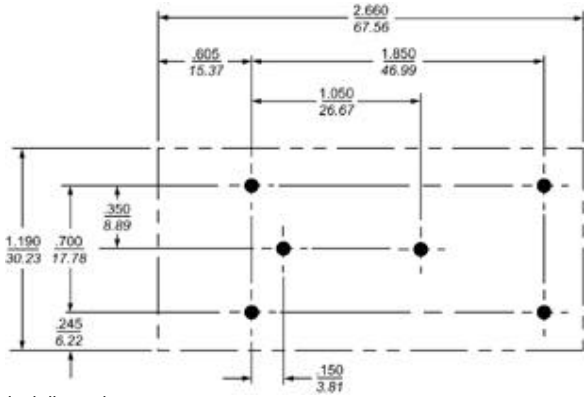
Typical dimensions

Terminals: .250 / 6.35 (5) Holes: .07 / 1.8 Dia.(4) Slot: .07 x .16 / 1.8 x 4.1 Mounting holes: .188 / 4.78 Dia.(2)

EXP/EYP/EZP



Recommended Mounting Holes and Clearance Area



Typical dimensions

Holes: .075 / 1.91 Dia.(6)

Tolerance ± .006 / .152

Case Dimensions

Metric shown in italics.

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

Ordering Information

Consult your local Corcom sales representative for pricing.

3EXP

- **Current Rating** (1, 2, 3, 4, 6A)
- **Leakage Current**
  - **E** - Low
- **Terminal Type**
  - **1** - 1/4" quick connect
  - **P** - PCB mount
- **Series**
  - **X** - High performance 450kHz to 30MHz
  - **Y** - High performance 150kHz to 30MHz
  - **Z** - High performance 10kHz to 30MHz

Available Part Numbers

3EXP	1EZP
3EX1	2EZP
4EXP	3EZP
6EXP	3EZ1
2EYP	
3EYP	
4EYP	