

PK Series

CHASSIS MOUNT, HIGH PERFORMANCE, MULTIPURPOSE,
SINGLE STAGE EMI/RFI LINE FILTER.



FEATURES

The PK series offers a wide variety of EMI filters in numerous styles of packages and current ratings. The filters are effective in reducing both Line-to-Line and Line-to-Ground noise up to 30 Amp at 250VAC. This series offers very low leakage current suitable for medical and non-medical applications.

These filters are also available for Medical applications. The absence of C(y) capacitors offers extremely low Leakage current to comply with various industry standards especially the medical equipment with Switching power supplies.

A Bleeder resistor can also be added to prevent excessive voltages from developing across the filter capacitors when there is no load.

APPLICATIONS

Computer & networking equipment, Measuring & control equipment, Data processing equipment, laboratory instruments, Switching power supplies, other electronic equipment.

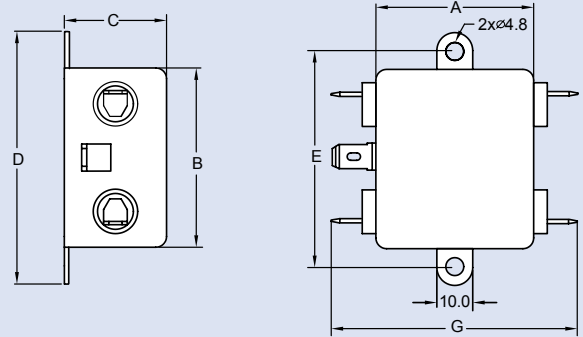
TECHNICAL DATA

- Rated Voltage: 115/250VAC
 - Rated Current: 1A, 2A, 3A, 5A, 6A, 10A, 15A, 20A, 30A
 - Power Line Frequency: 50/60Hz
 - Max. Leakage Current each
- Line to Ground:
- @ 115VAC 60Hz: 0.25mA
 - @ 250VAC 50Hz: 0.45mA
 - @ 115VAC 60Hz: 2 μ A*
 - @ 250VAC 50Hz: 5 μ A*
- Hipot Rating (one minute)
- Line to Ground: 2250VDC
 - Line to Line: 1450VDC
- Temperature Range: -25C to +85C

* Medical application

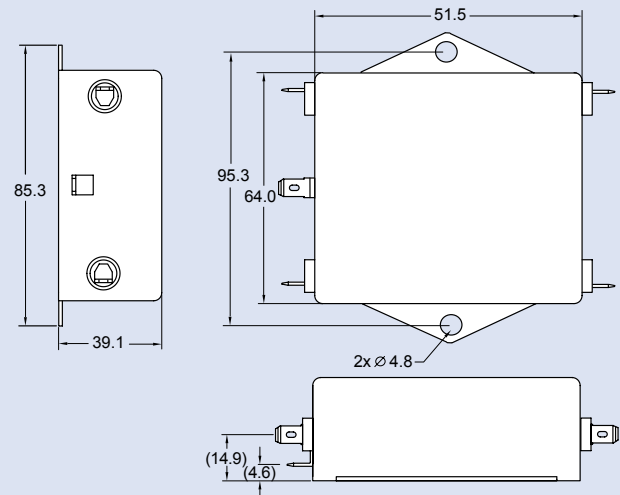
MECHANICAL DIMENSIONS (Unit: mm)

A1, A2, A3

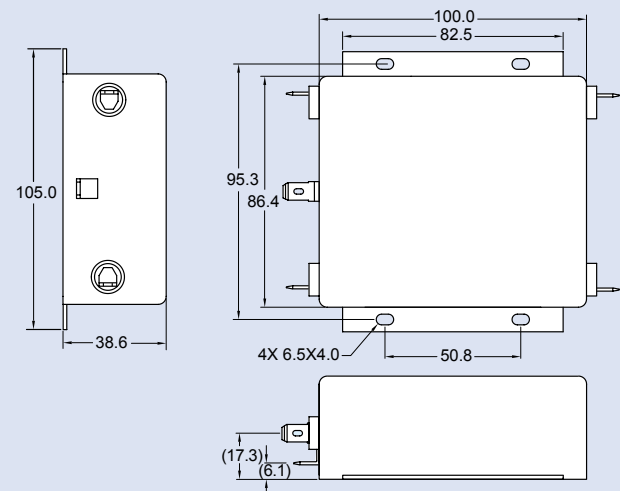


| CASE CODE | DIMENSIONS | | | | | | |
|-----------|------------|------|------|------|------|------|------|
| | A | B | C | D | E | F | G |
| A1 | 24.4 | 45.0 | 17.5 | 64.5 | 54.1 | 8.5 | 49.6 |
| A2 | 33.8 | 45.0 | 30.0 | 64.5 | 54.5 | 14.9 | 59.0 |
| A3 | 46.5 | 51.8 | 30.0 | 70.9 | 60.9 | 14.9 | 71.7 |

B1



G1




Specifications subject to change without notice. Dimensions (mm).

PK Series Example & Ordering Code

PK 01 Q - 50 - 1 C

CURRENT RATING (A):

- = 01
- = 02
- = 03
- = 05
- = 06
- = 10
- = 15
- = 20
- = 30

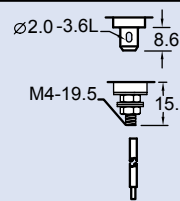


TERMINAL:
6.3/0.25

QUICK CONNECT = Q

M4-19.5 SCREW = PS

UL 1015, 18AWG STRANDED, 4" WIRE = W



OPTIONS:

- NO BLEEDER RESISTOR = 00
- BLEEDER RESISTOR (1/4 W, 1M) = 50
- BLEEDER RESISTOR (1/2 W, 1M) = 60

COMPONENT LOCATIONS:

- STANDARD TYPE = 1
- WITHOUT C(X); C(Y) ONLY = 2+
- C(X); C(Y) BEHIND L = 3+
- WITHOUT C(Y); C(X) ONLY = 1M
- WITHOUT C(Y); C(X) BEHIND L = 2M+

ATTENUATION CODE TABLE:

Non-Medical applications: Select the Attenuation Code with corresponding component values and case code.

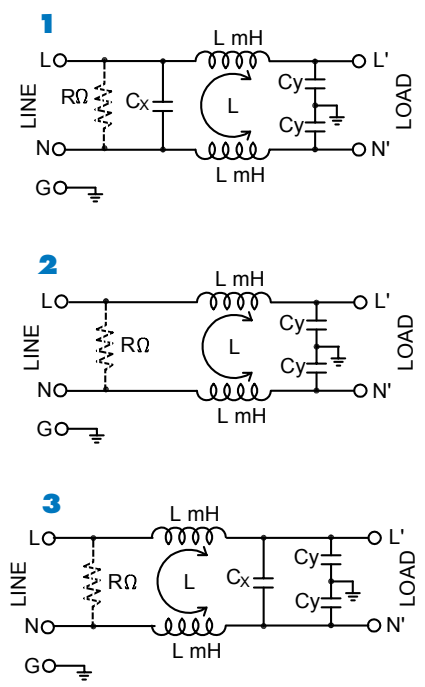
| Case Code | Cap. Cx (µF) | Cap. Cy (pF) | Inductance Per Current Rating (mH) | | | | | | | | | | |
|-----------|--------------|--------------|------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 1A | 2A | 3A | 5A | 6A | 10A | 15A | 20A | 30A | | |
| A1 | 0.033 | 2200 | 10.0 | 2.5 | 1.2 | 1.0 | 0.8 | 0.3 | * | * | * | = A | |
| A1 | 0.1 | 3300 | 10.0 | 2.5 | 1.2 | 1.0 | 0.8 | 0.3 | * | * | * | = B | |
| A2 | 0.033 | 2200 | 15.0 | 2.5 | 2.0 | 1.2 | 0.8 | 1.0 | 0.8 | 0.6 | * | = C | |
| A2 | 0.1 | 3300 | 15.0 | 2.5 | 2.0 | 1.2 | 0.8 | 1.0 | 0.8 | 0.6 | * | = D | |
| A3 | 0.033 | 2200 | 20.0 | 10.0 | 8.0 | 4.0 | 2.0 | 1.2 | 0.9 | 0.7 | 0.3 | = E | |
| A3 | 0.1 | 3300 | 20.0 | 10.0 | 8.0 | 4.0 | 2.0 | 1.2 | 0.9 | 0.7 | 0.3 | = F | |
| B1 | 0.033 | 2200 | * | * | * | * | * | 1.5 | * | 0.9 | 0.3 | = G | |
| B1 | 0.1 | 3300 | * | * | * | * | * | 1.5 | * | 0.9 | 0.3 | = H | |
| G1 | 0.033 | 2200 | * | * | * | * | * | 4.0 | 3.0 | 2.0 | 1.5 | = I | |
| G1 | 0.1 | 3300 | * | * | * | * | * | 4.0 | 3.0 | 2.0 | 1.5 | = J | |

Medical applications: Select the Attenuation Code with corresponding component values and case code.

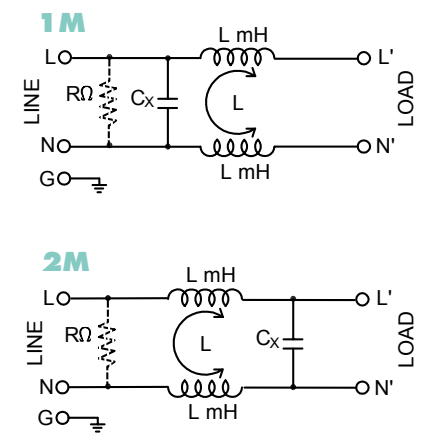
| Case Code | Cap. Cx (µF) | Inductance Per Current Rating (mH) | | | | | | | | | | |
|-----------|--------------|------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|------|--|
| | | 1A | 2A | 3A | 5A | 6A | 10A | 15A | 20A | 30A | | |
| A1 | 0.033 | 10.0 | 2.5 | 1.2 | 1.0 | 0.8 | 0.3 | * | * | * | = M0 | |
| A1 | 0.1 | 10.0 | 2.5 | 1.2 | 1.0 | 0.8 | 0.3 | * | * | * | = M1 | |
| A2 | 0.033 | 15.0 | 2.5 | 2.0 | 1.2 | 0.8 | 1.0 | 0.8 | 0.6 | * | = M2 | |
| A2 | 0.1 | 15.0 | 2.5 | 2.0 | 1.2 | 0.8 | 1.0 | 0.8 | 0.6 | * | = M3 | |
| A3 | 0.033 | 20.0 | 10.0 | 8.0 | 4.0 | 2.0 | 1.2 | 0.9 | 0.7 | 0.3 | = M4 | |
| A3 | 0.1 | 20.0 | 10.0 | 8.0 | 4.0 | 2.0 | 1.2 | 0.9 | 0.7 | 0.3 | = M5 | |
| B1 | 0.033 | * | * | * | * | * | 1.5 | * | 0.9 | 0.3 | = M6 | |
| B1 | 0.1 | * | * | * | * | * | 1.5 | * | 0.9 | 0.3 | = M7 | |
| G1 | 0.033 | * | * | * | * | * | 4.0 | 3.0 | 2.0 | 1.5 | = M8 | |
| G1 | 0.1 | * | * | * | * | * | 4.0 | 3.0 | 2.0 | 1.5 | = M9 | |

* Contact PDI *Contact PDI for attenuation numbers

SCHEMATICS



MEDICAL SCHEMATICS



145 Algonquin Parkway, Whippany, NJ 07981 • 973-560-0019 • FAX: 973-560-0076
 e-mail: filtersales@powerdynamics.com • www.powerdynamics.com

