PBH Series

16/20A HIGH CURRENT, SNAP-IN/FLANGE MOUNT FILTER WITH IEC 60320 AC INLET SOCKET.

FEATURES

The PBH series offers filters for application that have high current (16/20A) requirements. The filters are available with different configurations of components and termination styles. These filters are available in flange mount and snap-in type. The medical grade filters offer excellent performance with maximum leakage current of 2μA at 120VAC, 60Hz.

A ground choke can be added to enhance the grounding ability of the circuit. 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: 16A, 20A
- Power Line Frequency: 50/60Hz
- Max. Leakage Current each

Line to Ground:

@ 115VAC 60Hz: 0.25mA
@ 250VAC 50Hz: 0.50mA
@ 115VAC 60Hz: 2μA*
@ 250VAC 50Hz: 5μA*

- Hipot Rating (one minute)

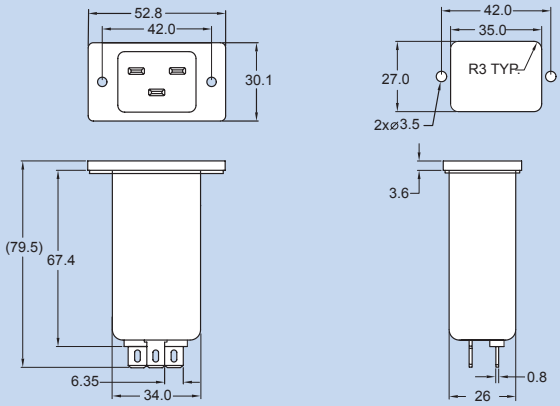
Line to Ground: 2250VDC
Line to Line: 1450VDC

- Temperature Range: -25C to +85C

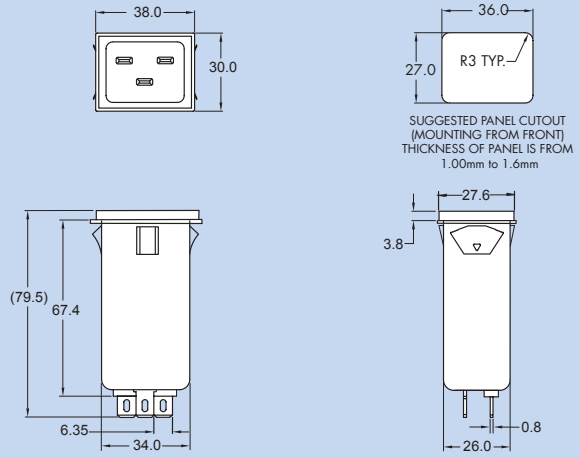
✛ SEMKO, VDE approved to 16A
* Medical application

MECHANICAL DIMENSIONS (Unit: mm)

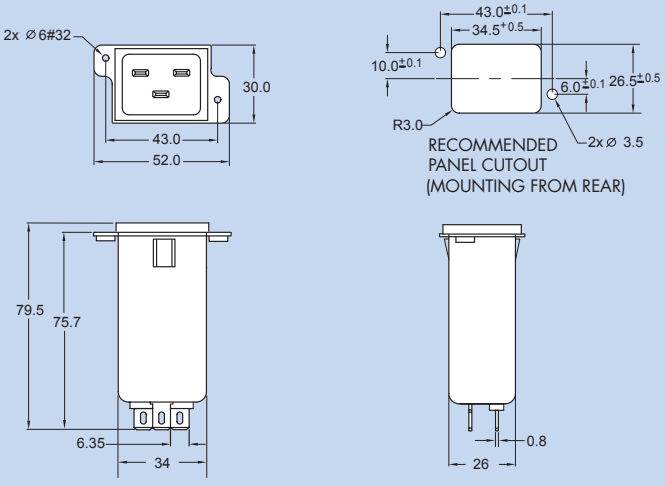
CASE F



CASE U



CASE O



Specifications subject to change without notice. Dimensions (mm). See Appendix A for recommended power cord. See PDI full line catalog for detailed specifications on power cords.

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

PDI® Power Dynamics, Inc.

PBH Series Example & Ordering Code

PBH | 20 | Q | - | 60 | - | 1 | C | U

CURRENT RATING (A): = 16 = 20

TERMINAL:

6.3/0.25	QUICK CONNECT	= Q
4.0/0.187	SOLDER	= S
UL 1015, 18AWG STRANDED, 4"	WIRE	= W

OPTIONS:

NO BLEEDER RESISTOR & NO GROUND CHOKE	= 00
BLEEDER RESISTOR (1W, 1M)	= 60
BLEEDER RESISTOR (1W, 1M) & GROUND CHOKE	= 80
GROUND CHOKE (100µH)	= 90

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 Attenuation code with corresponding component values from the table.

Case Code	Cap. Cx (µF)	Cap. Cy (pF)	20A (mH)	
F,O,U	0.1	2200	0.5	= A
F,O,U	0.1	3300	0.5	= B
F,O,U	0.33	2200	0.5	= C

Medical applications, select Attenuation code with corresponding component values from the table.

Case Code	Cap. Cx (µF)	16/20A (mH)	
F,O,U	0.1	0.5	= M1
F,O,U	0.33	0.5	= M2

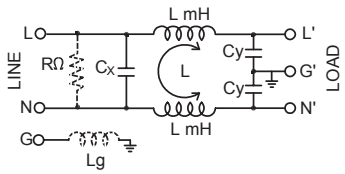
CASE CODE:

FLANGE MOUNT	= F
SNAP-IN TABS - SIDE	= U
REAR PANEL MOUNT	= O

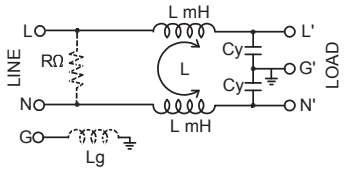
+Contact PDI for attenuation numbers

SCHEMATICS

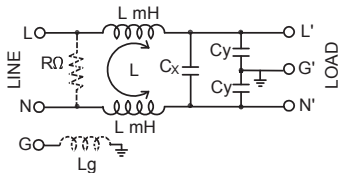
1



2

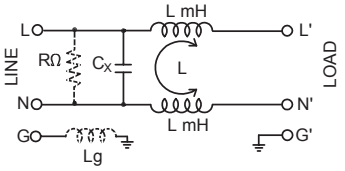


3

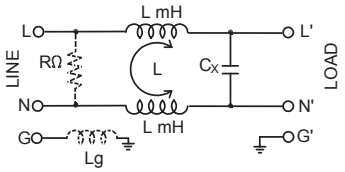


MEDICAL SCHEMATICS

1M



2M



Non-Medical Applications*

Insertion loss in dB (50 Ohm circuit)

Attenuation Code	Comm. Mode(L-G) in MHz						Diff. Mode(L-L) in MHz					
	.15	.5	1	5	10	30	.15	.5	1	5	10	30
A	17	22	26	43	51	43	8	18	24	45	43	35
B	17	23	28	47	57	45	8	18	23	51	54	34
C	17	22	26	43	51	43	18	28	33	46	53	35

*This table applies to schematic 1 only.
Visit our website or contact PDI for other schematic attenuation numbers.

Medical Applications*

Insertion loss in dB (50 Ohm circuit)

Attenuation Code	Comm. Mode(L-G) in MHz						Diff. Mode(L-L) in MHz					
	.15	.5	1	5	10	30	.15	.5	1	5	10	30
M1	16	21	22	24	25	20	8	18	25	42	43	30
M2	16	20	22	24	25	20	17	28	33	41	40	31

*This table applies to schematic 1M only.
Visit our website or contact PDI for other schematic attenuation numbers.

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