

P Series

The Chameleon
Adaptable Module
for General or Medical Applications



UL Recognized
CSA Certified
VDE Approved



PS Unfiltered



PSJ



PS Filtered

P Series

The P series power entry module offers full flexibility of design in the most compact package.

As the first 10 amp module to provide all five power entry functions in one compact design, the "Chameleon" readily adapts to its environment and the needs of international markets.

- Snap-in or flange mounting
- IEC power line connector
- Both North American and European fusing capabilities
- Two voltage selection
- Optional DPST on/off switch
- Filtering options for general purpose and medical applications.



PE filter with B Shield

The Chameleon's compact design and modular construction will allow you to select all the power entry features you require – without altering the panel cutout. And the Chameleon, with adapters, will fit any standard panel cutout you currently have designed.

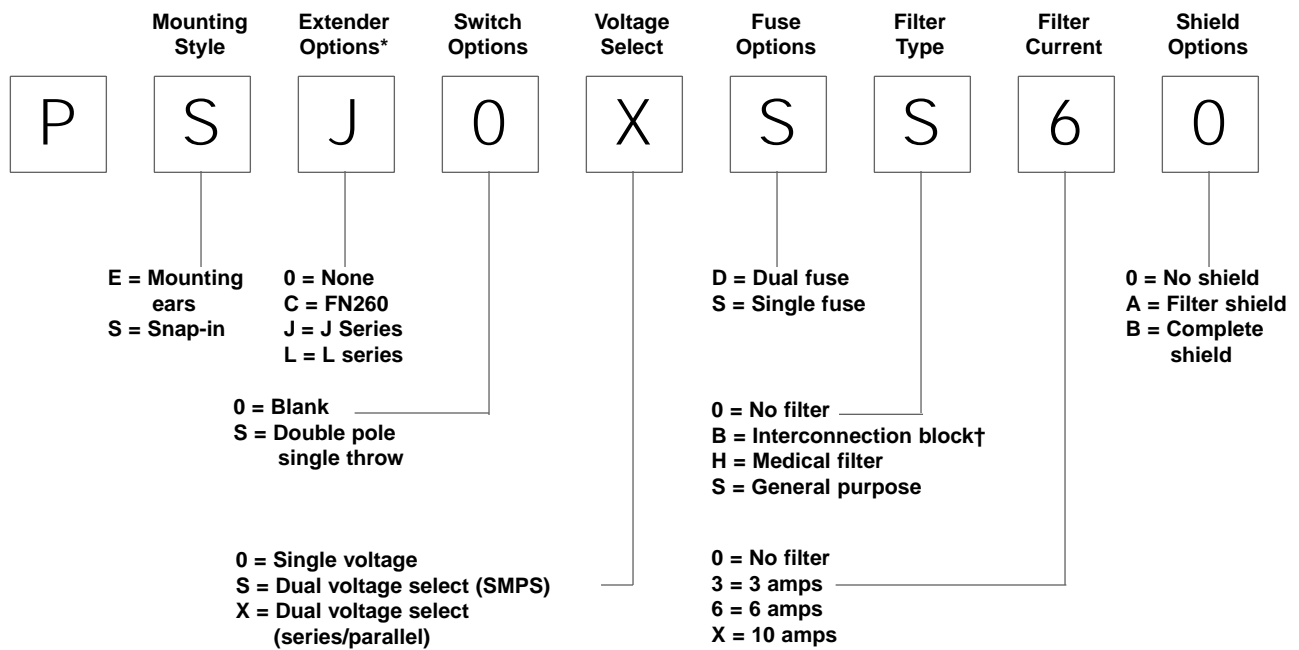
The Chameleon has two filter options. S models offer protection for general purpose applications where line-to-ground and line-to-line noise must be controlled. The filters are designed to meet low leakage requirements of SEV and VDE portable equipment. They are available in current ratings of 3, 6, and 10 amps.

H models provide susceptibility protection without leakage current associated with line-to-ground capacitors, and are designed to allow equipment to meet UL 544 for patient care and nonpatient care equipment.

Also available is an interconnection block, B models. The block connects the voltage selection terminals of an unfiltered Chameleon with a switch and an IEC connector to reduce external wiring.

P Series Part Number Schematic

Part numbers are constructed by selecting the alphanumeric character which represents the desired feature.

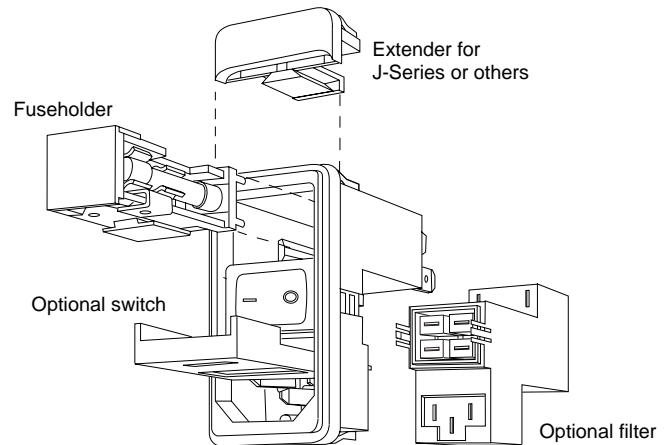


The part number PSJ0XSS60 would represent the equivalent of Corcom's 6J4. The part would feature the J extender to fit the current 6J4 panel cutout, and includes no switch, dual voltage select, single fusing, and a 6 amp general purpose filter.

Pricing

Consult your local Corcom sales representative for pricing.

Part No.	Part No.
PS000S000	PS0SXDS60
PS0XS000	PSJ0XSS60
PS0S0SBX0	PSLS0SS60
PS000SH30	PS0SXSS60
PS00SDH3A	PS00SSXA
PS0S0SH60	PSOSSSX0
PS0SSDH6A	PE0SSS000
PS00SSHXA	PE0SSSH60
PS0SSSHX0	PE000SS30
PS000SS30	PE0S0SS30
PS0S0SS30	PE000SS60
PS0SSSS6B	PEOSSSX0



Additional extender which allows the P series to adapt to Corcom's L series cutout, as well as the panel cutout of Schaffner and Delta parts, is available.

*Extenders cannot be added to units with B shields.

†When using the interconnection block, the last 3 digits of the part number are BX0.

P Series

Voltage Selection

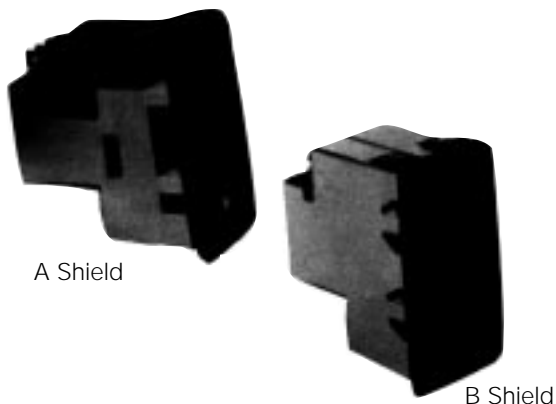
The P series of power entry modules provides a dual voltage selector which is integrated with the fuseholder. To simplify the wiring in each individual application, Corcom provides dedicated voltage selectors for different voltage selection schemes. The two most popular schemes are the parallel and serial for dual primary transformers and the "SPST switch" for switching mode power supplies (jumper types.) P series products with an "S" as the fifth digit are specifically designed for "jumper" type applications associated with switching mode power supplies.

P series products with an "X" as the fifth digit are specifically designed for dual primary transformer applications. The voltage selector installed will allow proper wiring from these applications. No matter what voltage selection scheme is used, wiring is always made to the same four terminals.

Fuseholder

Another feature of the P series power entry module is a versatile fusing arrangement. Its fuseholder can hold two 1/4" x 1-1/4" or 5 x 20mm fuses. It can also be converted to accept one fuse with a conversion clip that bridges one of the two fuse chambers.

The conversion clip is installed on the Chameleon power entry modules set for single fusing, those with part numbers with an "S" as the sixth digit. Units with a "D" as the sixth digit do not include a conversion clip.



Interconnection Block

Installation of the unfiltered versions of the P series involves wiring of the IEC socket to the switch and the switch to the fuseholder. Labor can be eliminated by ordering the product with an interconnection block. This feature, designated by a BX in the seventh and eighth digits, prewires the module for easier installation. The wiring is protected with the plastic case to prevent access to the terminals and connections.

Wiring can be further simplified by ordering a PA100 connector assembly. See page 117 for accessories.

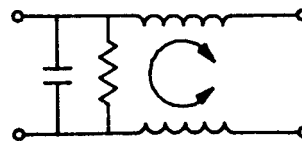
The dimensions of this alternative are the same as the filtered versions.

Filter Options

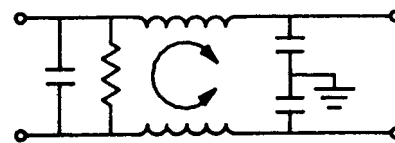
Two filtering options are available in three current ratings. S models (those with an S as the seventh digit) provide general purpose filtering for both line-to-ground and line-to-line noise. The increased inductance of the P series allows better performance than most power entry modules on the market. The S models will generally allow compliance with FCC limits for linear power supplies.

The H models greatly reduce line-to-ground capacitance in compliance with UL 544 low leakage current specification.

H Model



S Model



Shield

A new feature available on the P series is an RF shield. The metal shield, available on filtered models, provides shielding from radiated emissions and provides an additional RF ground for the filter to the case.

The shield is available in two options, a shield of the filter components (designated by A as the ninth digit) and a complete shield (designated by B as the ninth digit).

The A shield covers the filter portion of the module and increases performance of the filter by protecting the components from radiated noise. This shield improves RF ground connection to the case while still allowing the use of the Chameleon extender.

The B shield covers the entire power entry module with metal, protecting the equipment from all radiated noise. Used with the filter, the shield provides the most secure protection from RFI noise problems. The B shield cannot be used with any extender.

Specifications – Unfiltered Models

Hipot rating (one minute):
 line-to-ground 1500 VAC
 line-to-line 1450 VDC

Operating frequency: 50/60 Hz

Rated voltage: 120/250 VA

Rated current, all unfiltered models:
 10A @ 120 VAC
 10A @ 250 VAC

Operating voltages:
 Selectable or fixed 115/230 VAC

Fuseholder:
 Accepts one or two fuses 1/4" x 1-1/4"
 or 5 x 20 mm

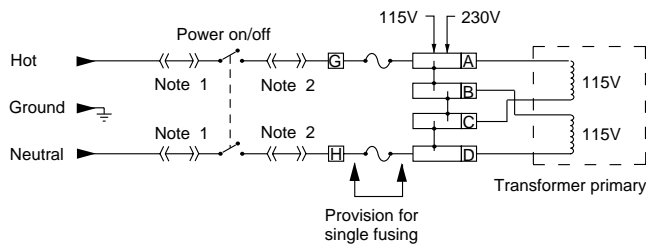
Conversion clip provided on fuseholder for single fuse models.

Switch
 Double-insulated rated for 10,000 operations at full load.
 51 Amp inrush capability.

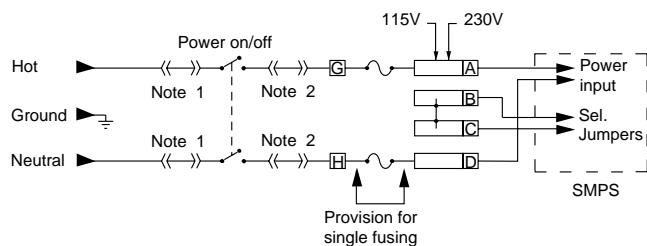
Terminals: 0.187" x 0.032" terminal tabs

Voltage Selection Schemes

1) Dual Primary Transformer Type:



2) Jumper Type



Note 1: Jumpers are required if a filter or interconnection module is not used.
 Note 2: Location of optional filter. Jumpers are required if a filter or interconnection module is not used.

Specifications – Filtered Models

Maximum leakage current, each line-to-ground:
 @ 120 VAC 60 Hz: H models 2μA
 S models 0.25mA
 @ 250 VAC 50 Hz: H models 5μA
 S models .50mA

Hipot rating (one minute):
 line-to-ground 1500 VAC
 line-to-line 1450 VDC

Operating voltages:
 Selectable or fixed 115/230 VAC

Operating frequency: 50/60 Hz

Rated voltage: 120/250 VAC

Conversion clip provided on fuseholder for single fuse models.

Switch:
 Double-insulated rated for 10,000 operations at full load.
 51 Amp inrush capability.

Terminals: 0.187" x 0.032" terminal tabs

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz								
	.03	.1	.15	.5	1	3	5	10	30

H Models

3A	7	17	21	27	30	29	26	23	15
6A		8	11	15	17	19	18	16	13
10A	3	5	8	10	12	11	11	10	10

S Models

3A	7	17	21	27	33	40	44	50	32
6A		8	12	17	23	32	36	44	30
10A	3	5	10	13	23	27	35	27	

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz							
	.10	.15	.5	1	3	5	10	30

H Models

3A	2	4	12	18	31	40	48	41
6A	2	4	12	16	26	35	40	35
10A	2	4	12	16	26	33	40	32

S Models

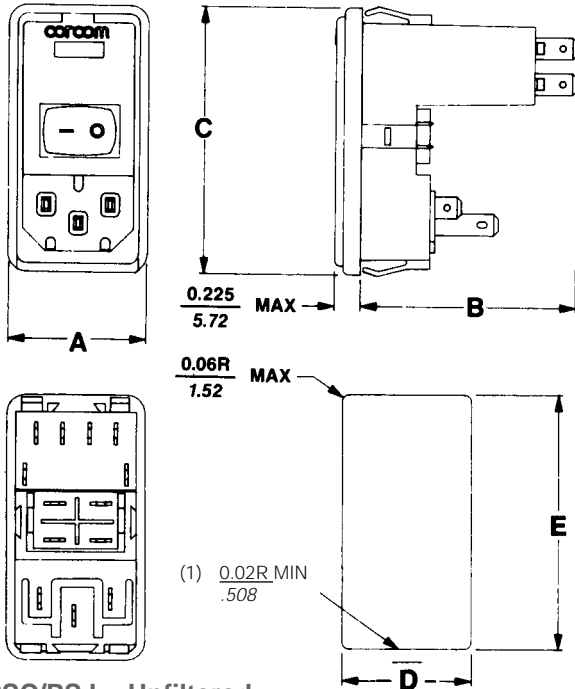
3A	2	4	12	15	30	48	50	45
6A	2	4	12	15	22	42	55	45
10A	2	4	12	15	22	42	55	45

P Series

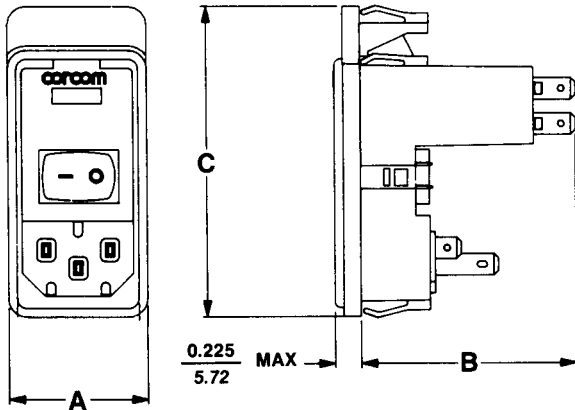
Case Styles

Metric shown in italics.

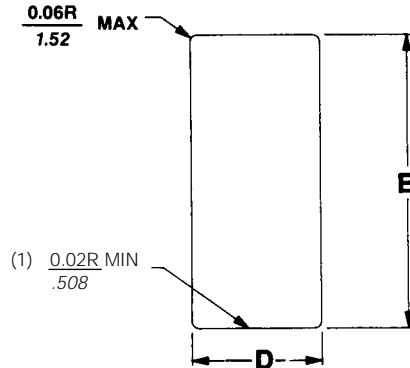
PS/PSL – Unfiltered



PSC/PSJ – Unfiltered



Panel Cutout



(1) For snap-in applications, the D sides of the cutout must have a .02 (.508) radius on the installation side.

Note: Snap-in models allow front mounting only. PS not recommended for plastic panels.

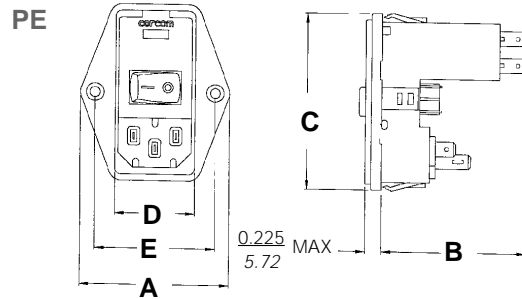
Case Dimensions — Unfiltered Models

Metric shown in italics.

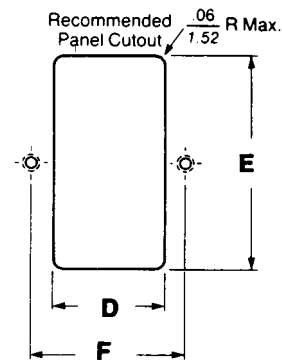
Part No.	A (max)	B (max)	C (max)	D (^{+0.008} / _{-0.000})	E (^{+0.008} / _{-0.000})	F
PE	1.98 50.29	1.93 49.02	2.31 58.67	1.122 28.5	2.201 55.91	1.575 40.0
PS	1.24 31.49	1.93 49.02	2.31 58.67	1.06 26.93	2.201* 55.91	—
PSC	1.24 31.49	1.93 49.02	2.81 63.75	1.06 26.92	2.52 64.01	—
PSJ	1.24 31.49	1.93 49.02	2.72 69.09	1.06 26.92	2.6 + 66.0	—
PSL	1.24 31.49	1.93 49.02	2.31 58.67	1.12 28.45	2.201* 55.91	—

* Panel cutout for thickness of .031 - .079 (.08 - 2.0). For panel thickness .083-.114 (2.1-2.9) use 2.213 (56.21).

+ Panel cutout for thickness of 0.06-0.09.



Panel Cutout



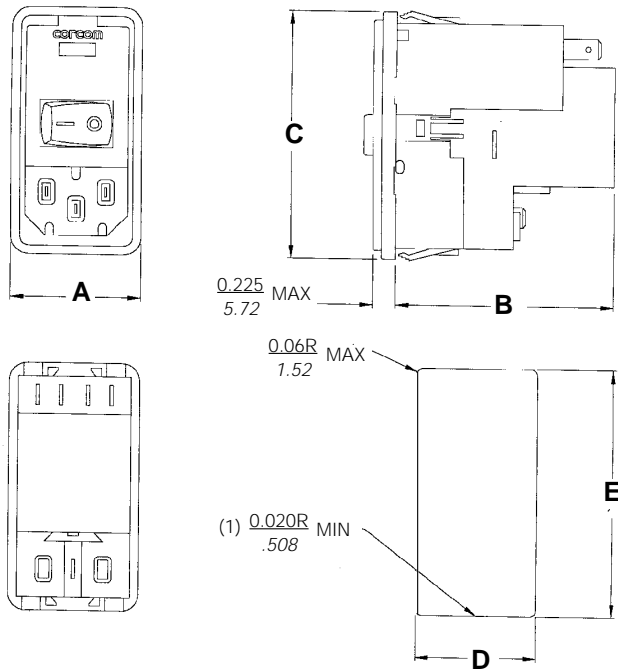
Mounting holes $\frac{.125}{3.18}$ Dia. (2)

Countersunk holes

Case Styles – Filtered

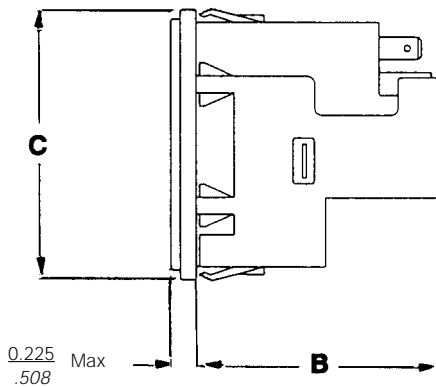
Metric shown in italics.

PS

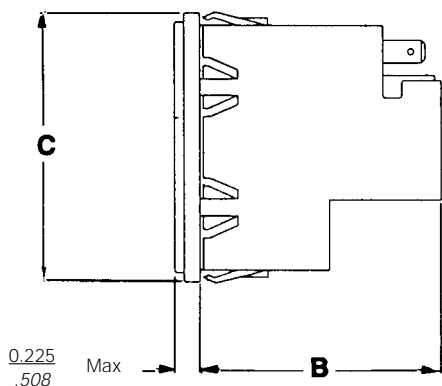


PS not recommended for use with plastic panels.

PS/PE with A Shield



PS/PE with B Shield



Case Dimensions – Filtered

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D ($\frac{+.008}{-.000}$)	E ($\frac{+.008}{-.000}$)	F
PE	$\frac{1.98}{50.29}$	$\frac{2.13}{54.1}$	$\frac{2.31}{58.67}$	$\frac{1.122}{28.5}$	$\frac{2.201}{55.91}$	1.575 40.0
PS	$\frac{1.24}{31.49}$	$\frac{2.13}{54.1}$	$\frac{2.31}{58.67}$	$\frac{1.06}{26.93}$	$\frac{2.201^*}{55.91}$	—
PSC	$\frac{1.24}{31.49}$	$\frac{2.13}{54.1}$	$\frac{2.51}{63.75}$	$\frac{1.06}{26.92}$	$\frac{2.52}{64.01}$	—
PSJ	$\frac{1.24}{31.49}$	$\frac{2.13}{54.1}$	$\frac{2.72}{69.09}$	$\frac{1.06}{26.92}$	$\frac{2.6+}{66.0}$	—
PSL and Shielded Models	$\frac{1.24}{31.49}$	$\frac{2.13}{54.1}$	$\frac{2.31}{58.67}$	$\frac{1.12}{28.45}$	$\frac{2.201^*}{55.91}$	—

* Panel cutout for thickness of .031 - .079 (.08 - 2.0). For panel thickness at .083-.114 (2.1-2.9) use 2.213 (56.21).

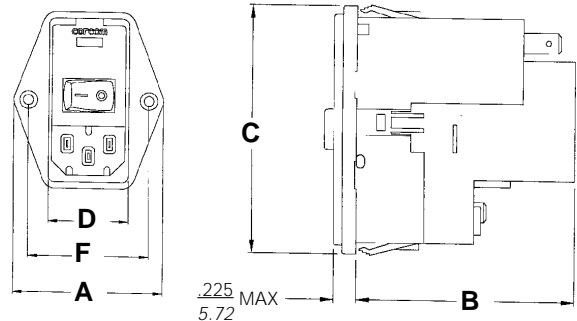
+ Panel cutout for thickness of 0.06-0.09.

For shielded models use D = 1.12 $\frac{+.008}{-.000}$.

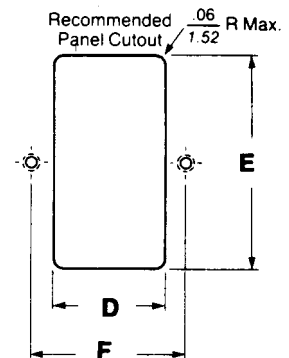
Shields can be used only with filtered models. Shields add approximately 0.06" to depth.

B shield may not be used with J or C extender.

PE



Panel Cutout



(1) For snap-in applications, the D sides of the cutout must have a .02 (.508) radius on the installation side.

For easy wiring connection, see accessories PA100 and PA101 on page 117.