The CHAMELEON Adaptable Module for General, High Performance or Medical Applications

P Series



UL Recognized CSA Certified VDE Approved

P Series

The P series power entry module offers fuller flexibility of design in a more compact package.

As the first 10 amp module to provide all five power entry functions in one compact design, the CHAMELEON module 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 selections
- Optional DPST on /off switch
- Filtering options for general purpose, medical and high-performance applications.

The CHAMELEON modules compact design and modular construction will allow you to select the power entry features you require — without altering the panel cutout And the Chameleon module, with adapters, will fit any standard panel cutout

The CHANELEON module has four filter options. **S models** offer protection for general purpose applications where line-to-ground and line-to-line noise mustbe controlled. The filters are designed to meetlow leakage requirements of VDE portable equipment They are available in current ratings of 3, 6 and 10 amps.





PS Unfiltered

PS Filtered

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 non-patient care equipment

PS000SS30

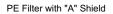
Also available is an interconnection block, **B models**. The block connects the voltage selection terminals of an unfiltered CHAMELEON module with a switch and an IEC connector to reduce external wiring.

L Models – High performance medical filter versions that are designed to help bring most digital equipment (including switching power supplies) into compliance with EN55022, Level B (as well as FCC part 15J, Class B) conducted emissions limits while additionally allowing equipment to meet UL544, UL2601 and EN60601 for patient care equipment and non-patient care equipment. They are available with current ratings of 6 and 10 amps. High performance versions are available with horizontal mounting ears, single voltage, complete can shield with options for switch, fuses and current ratings only. Extenders are not available.

Z Nbdels – High performance filter versions are designed to help bring most digital equipment (including switching power supplies) into compliance with EN55022, Level B (as well as FCC Part 15J, Class B) conducted emissions limits. They are available with current ratings of 6 and 10 amps. High performance versions are available with horizontal mounting ears, no extenders, single voltage, complete can shield with options for switch, fuses and current ratings only.







Catalog 1654001 Dim Revised 05-07 milli spec

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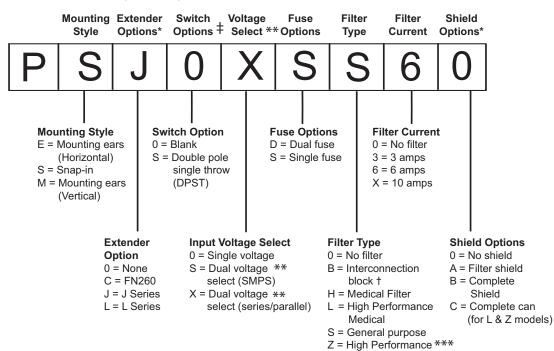
Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA Cust. Svc.: 1-800-468-2023 CORCOM Prods: 1-847-680-7400 Germany: 49-89-6089-0

The CHAMELEON Adaptable Module for General, High Performance or Medical Applications (Continued)

P Series

P Series Part Number Schematic

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

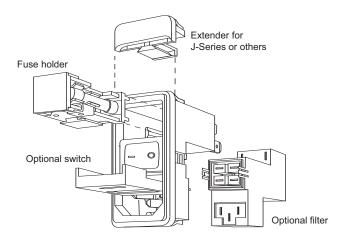


Notes:

- An additional extender which allows the P series to adapt to Corcom's L series product cutout as well as the panel cutout of Schaffner and Delta parts is also available.
- Extenders cannot be added to units with B shields
- $\dagger~$ When using the interconnection block, the last 3 digits of the part number are BX (0, A, or B)
- For alternative switch orientation options, please contact technical sup port or your Corcom sales representative
- ** Dual voltage options only available with filter types O, H or S
- High performance versions are available with horizontal mounting ears (PE style), no extenders, single voltage, complete can shield with options for switch, fuses, filter type (L or Z) and 6 or 10 amp current ratings only.

The part number $\mbox{PSJ0XSS60}$ would represent the equivalent of the Corcom J Series 6J 4:.

P Series (P) with a snap-in mount (S) with the J extender to fit the 6J4 cutout(J), and includes no switch (O) dual voltage select (X) single fusing (S), general purpose filter (S) for 6 amps (G) with no shield (O).



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

Extenders cannot be added to units with B shields.

Power Entry Modules

Dimens

Catalog 1654001

Revised 05-07

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₹ Tyco Electronics

> The CHAMELEON Adaptable Module for General, High Performance or Medical Applications (Continued)

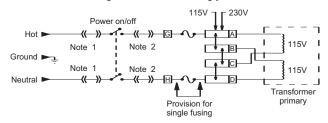
P Series

Voltage Selection

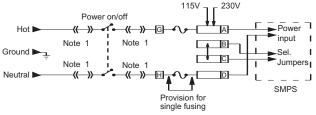
The P series of power entry modules provides a dual voltage selector which is integrated with the fuseholder. To simplify the wiring in each individual application, Tyco Electronics provides dedicated voltage selectors for different voltage selection schemes. The two most popular schemes are the parallel and serial for dual primary transformers and the "DPST 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.

Input Voltage Selection Schemes

X - Dual Primary Transformer Type



S - 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 block is not used.

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 versions, 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 magnetic coupling. This shield improves RF ground connection to the case while still allowing the use of the P Series 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.



A Shield



B Shield

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The CHAMELEON Adaptable Module for General, High Performance or Medical Applications (Continued)

P Series

Fuseholder

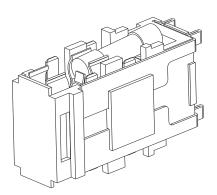
Another feature of the P series power entry module is a versatile fusing arrangement. Its fuseholder can hold two $1/4'' \times 1-1/4''$ or 5 x 20mm fuses. It can also be converted to acceptone fuse with a conversion clip thatbridges one of the two fuse chambers. The conversion clip is installed on the P Series 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 on ot include a conversion clip.



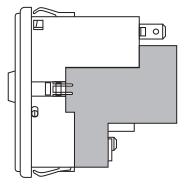
Conversion clip included for use in single fuse applications.

Interconnection Block

Also available is an interconnection block (B models). The block connects the voltage selection terminals of an unfiltered CHANELEON module with a switch and an IEC connector to reduce external wiring. 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, pre wires the module for easier installation. The wiring is protected with the plastic case to better prevent access to the terminals and connections. **The dimensions of this alternative are the same as the filtered versions.**



Fuseholder shown with 5x20mm fuse

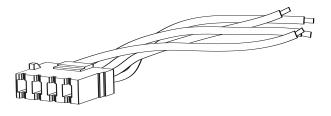


Interconnection Block installed in place of filer.

Accessories

A full range of accessories are available for the P Series. To simplify customer installation wiring can be simplified by ordering a PA100 connector assembly which is pre-wired with 6" of wire lead.

See page 143 for a complete list of all accessories available for this series.

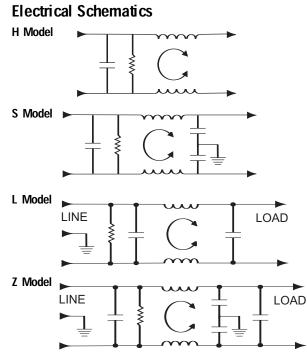


PA100 Assembly

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The CHAMELEON Adaptable Module for General, High Performance or Medical Applications (Continued)

P Series



Specifications

| Maximum leakage current, | each line-to-grour | nd: † |
|----------------------------|-------------------------|-------------------------|
| | <u>H & L Models</u> | <u>S & Z Models</u> |
| @ 120 VAC 60 Hz: | 2μΑ | . 25 mA |
| @ 250 VAC 50 Hz: | 5 µA | . 50 mA |
| †Applies to Filtered mode | els only | |
| Hipot rating (one minute): | 5 | |
| line-to-ground | | 1500 VAC |
| line-to-line | | 1450 VAC |
| Operating frequency: | | 50/60 Hz |
| Rated voltage: | | 250 VAC |
| Operating voltages: | | |
| Selectable or Fixed | | 115/230 VAC |
| Rated current: | L | Infiltered – 10A |
| | Filtere | d – 3,6 or 10A |
| Switch: | | nsulated, rated |
| for | 10,000 operation | |
| | 51 Amp | inrush current |
| Fuseholder: | Accepts of | ne or two fuses |
| | | 4 or 5 x 20 mm |
| Convers | ion clip provided | l on fuseholder |
| Contens | | le fuse models. |
| Terminals: | ior sing | |
| | | |
| Standard versions: | [()] | .187 x 0.032 |
| | [4.8 x .8 | 1] terminal tabs |
| High performance ve | | . 250 x 0.032 |
| | | 1] terminal tabs |
| Recommended for use w | ith mating conne | ctor - no solder |

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

| Current | Frequency-MHz | | | | | | | | | | |
|----------|---------------|----|-----|----|----|----|----|----|----|--|--|
| Rating | .03 | .1 | .15 | .5 | 1 | 3 | 5 | 10 | 30 | | |
| H Models | | | | | | | | | | | |
| ЗA | 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 | | | | | | | | | | | |
| ЗA | 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 | | |

| Current | Frequency-MHz | | | | | | | | | | |
|----------|---------------|-----|----|-----|----|----|----|----|----|--|--|
| Rating | .01 | .05 | .1 | .15 | .5 | 1 | 5 | 10 | 30 | | |
| Z Models | | | | | | | | | | | |
| 6A | 8 | 21 | 27 | 30 | 37 | 43 | 49 | 52 | 42 | | |
| 10A | 5 | 17 | 22 | 24 | 27 | 32 | 52 | 47 | 40 | | |
| L Models | | | | | | | | | | | |
| 6A | 8 | 21 | 27 | 29 | 34 | 35 | 25 | 21 | 16 | | |
| 10A | 5 | 17 | 22 | 23 | 24 | 25 | 21 | 18 | 14 | | |

Line-to-line in 50 ohm circuit

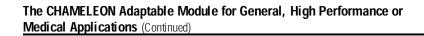
| Current | | Frequency-MHz | | | | | | | | | |
|----------|-----|---------------|----|----|----|----|----|----|--|--|--|
| Rating | .10 | .15 | .5 | 1 | 3 | 5 | 10 | 30 | | | |
| H Models | | | | | | | | | | | |
| ЗA | 2 | 4 | 12 | 18 | 31 | 40 | 48 | 41 | | | |
| 6A | 2 | 4 | 12 | 16 | 26 | 35 | 40 | 35 | | | |
| 10A | 2 | 4 | 12 | 16 | 26 | 33 | 40 | 32 | | | |
| S Models | | | | | | | | | | | |
| ЗА | 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 | | | |

| Current | Frequency-MHz | | | | | | | | | | |
|----------|---------------|-----|----|-----|----|----|----|----|----|--|--|
| Rating | .01 | .05 | .1 | .15 | .5 | 1 | 5 | 10 | 30 | | |
| Z Models | | | | | | | | | | | |
| 6A | 10 | 15 | 34 | 44 | 75 | 75 | 75 | 70 | 60 | | |
| 10A | 10 | 20 | 20 | 35 | 67 | 75 | 75 | 70 | 60 | | |
| L Models | | | | | | | | | | | |
| 6A | 10 | 15 | 34 | 44 | 75 | 75 | 75 | 70 | 60 | | |
| 10A | 10 | 20 | 20 | 35 | 67 | 75 | 75 | 70 | 60 | | |

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Dimensions are shown for reference purposes only. Specifications subject to change.

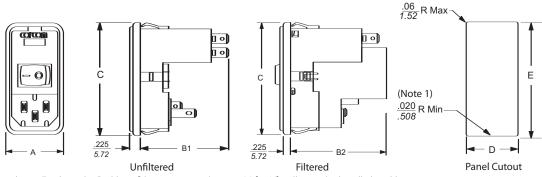
∉ Tyco Electronics



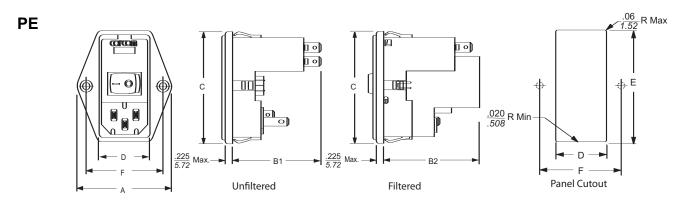
P Series

Case Styles

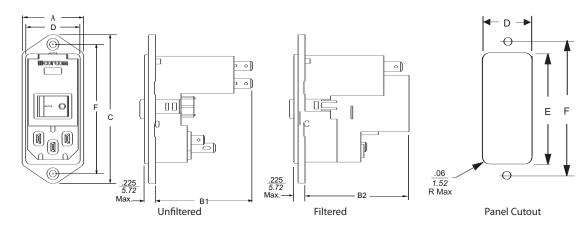
PS/PSL



Note1: For snap-in applications, the D sides of the cutoutmusthave a .02 [. 508] radius on the installation side. Snap-in models allow front mounting only. Not recommended for plastic panels.



ΡM



Typical dimensions:

. Terminals: .187 x 0.032 [*4.8 x .81*] terminal tabs Slot (Ground Terminal): .06 x .115 [*1.52 x 2.92*] ±.004 [*.10*] Holes: .055 [1.5] Dia. ±.004 [.10] Mounting Holes (PE, PM only): .135 [.3.43] Dia. (2) countersunk

USA Cust. Svc.: 1-800-468-2023

Power Entry Modules

www.corcom.com www.tycoelectronics.com

Catalog 1654001 Revised 05-07

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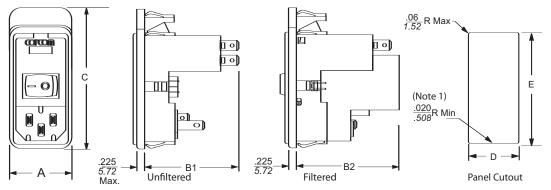
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The CHAMELEON Adaptable Module for General, High Performance or Medical Applications (Continued)

P Series

Case Styles (continued)

PSC/PSJ

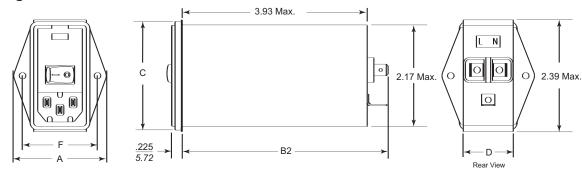


Note 1: For snap-in applications, the D sides of the cutout must have a .02 [. 502] radius on the installation side. Snap-in models, allow front mounting only.

Typical dimensions:

Terminals: .187 x 0.032 [*4.8 x.81*] terminal tabs Slot (Ground Terminal): .06 x .115 [*1.52 x 2.92*] ±.004 [*.10*] Holes: .055 [*1. 5*] Dia. ± .004 [*.1 0*] Mounting Holes (PE, PM only) : .135 [*3.43*] Dia. (2) countersunk

PE High Performance



Note 1: Use cutout for PE Style.

Typical dimensions:

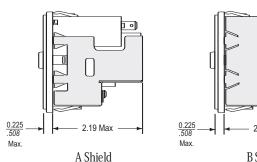
. Terminals: .250 x 0.032 [*6.4 x. 81*] terminal tabs Slot (Ground Terminal): .07 x .16 [*1.8 x 4.1*] Holes: .07 [*1.8*] Dia. (2) Mounting Holes: .135 [*3.43*] Dia. (2) countersunk

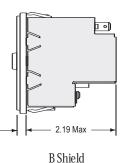
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P Series

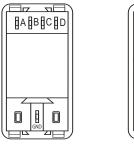
Shielding





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.

Rear View



Filtered

Unfiltered

ΣīΕ

BABBBCBC

| Case Dimensions | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|----------------------|--|--|--|--|--|
| Part No. | | B1 | | | D | | | | | |
| | (max) | (max) | (max) | (max) | +.008/000 +.20/00 | | | | | |
| PS | 1.24 | 1.93 | 2.13 | 2.31 | 1.06 ∆ | | | | | |
| | 31.49 | 49.02 | 54.1 | 58.67 | 26.93 | | | | | |
| PSL | 1.24 | 1.93 | 2.13 | 2.31 | 1.12 | | | | | |
| | 31.49 | 49.02 | 54.1 | 58.67 | 28.45 | | | | | |
| PE | 1.98 | 1.93 | 2.13 | 2.31 | 1.122 | | | | | |
| | | | | | | | | | | |

| _ | 31.49 | 49.02 | 54.1 | 58.67 | 28.45 | 55.91 | |
|-----------|-------|-------|--------|-------|-------|--------|-------|
| PF | 1.98 | 1.93 | 2.13 | 2.31 | 1.122 | 2.201* | 1.575 |
| | 50.29 | 49.02 | 54.1 | 58.67 | 28.5 | 55.91 | 40.0 |
| PM | 1.24 | 1.93 | 2.13 | 2.9 | 1.06 | 2.13 | 2.496 |
| | 31.49 | 49.02 | 54.1 | 73.66 | 26.93 | 54.1 | 63.4 |
| PSC | 1.24 | 1.93 | 2.13 | 2.51 | 1.06 | 2.52 | |
| | 31.49 | 49.02 | 54.1 | 63.75 | 26.93 | 64.01 | |
| PSJ | 1.24 | 1.93 | 2.13 | 2.72 | 1.06 | 2.6+ | |
| | 31.49 | 49.02 | 54.1 | 69.09 | 26.93 | 66.0 | |
| PE | 1.98 | | 4.42 | 2.31 | 1.12 | 2.201 | 1.575 |
| High | 50.29 | _ | 112.27 | 58.67 | 28.5 | 55.91 | 40.0 |
| Performar | nce | | | | | | |

* Panel cutout for thickness of .031 - .079 [08-20]. For panel thickness at.083-.114[*21-29*]use 2213[*5*6*2*1].

+ Panel cutout for thickness of 0.06 - 0.09 [076-229].

 Δ For shielded models use D=1.12 +.008/-.000.

Е

2.201*

55.91 2.201*

+.008/-.000 +.20/-.00

F