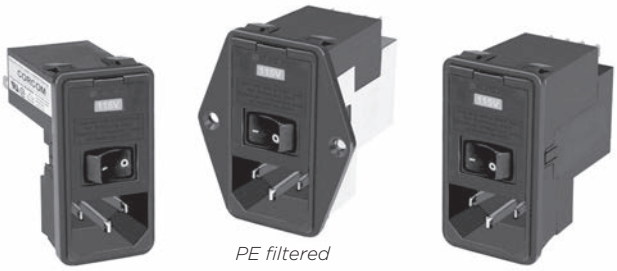
**Versatile Power Entry Module with Small Footprint**

# P Series

UL Recognized
CSA Certified
VDE Approved



*PS non-filtered* *PE filtered* *PS filtered*

## P Series

The P series CHAMELEON power entry module offers the most popular features in a small footprint design

As the first 10A 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
- Standard IEC 60321-1 C14 power inlet
- Both North American and metric fusing capabilities
- Two voltage selection options (for 4-voltage selection, see the M, L or LA Series)
- Optional DPST on/off switch
- Filter options for general purpose, medical and high-performance EMI filtering

The CHAMELEON module's compact design and modular construction allows selection of the required power entry feature — without altering the panel cutout. And the CHAMELEON module, with its optional adapters, will fit several common panel cutouts.

## Filter Types

The CHAMELEON module has four filter and one non-filtered option:

**S models** provide an extended performance two element circuit EMI filter, with attenuation similar to the EEB Series power inlet filter. It offers protection for general purpose applications with stray Line to Ground and Line to Line noise that must be attenuated at the power inlet. These filters have limited leakage current and are available in current ratings of 3, 6 and 10A.

**H models** provide susceptibility protection with minimal leakage current, and are suitable for patient care and non-patient care medical equipment.

**L models** feature a high performance medical filter 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 10A. These high performance versions are only available with mounting ears, single voltage selection, in a complete RFI shield with options for switch, fuses and current ratings. Mounting extenders are not compatible with the L or Z models.

**Z models** provide a high performance three element differential mode circuit filter, with extended EMI attenuation similar to the M Series Z models, 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 10A. These high performance versions are only available with mounting ears, single voltage selection, in a complete RFI shield with options for switch, fuses and current ratings. Mounting extenders are not compatible with the L or Z models. For minimum depth behind the panel, see the M Series

**B models** are non-filtered and incorporate an interconnection block. The block connects the voltage selection terminals of an unfiltered CHAMELEON module with an IEC connector and an optional switch to reduce external wiring. Compatible with the A or B RFI shield options.



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# P Series

## Ordering Information

Part numbers are constructed by selecting the alphanumeric character which represents the desired feature.
**Note: For any option where shown as "0" use the digit ZERO (0) not the letter (O).**

| Mounting Style | Extender Options[1] | Switch Options* | Voltage Select[2] | Fuse Options | Filter Type | Filter Current | Shield Options[1] |
|---|---|---|---|---|---|---|---|
| P | S | J | 0 | X | S | S | 6 | 0 |

**Mounting Style**
E = Mounting ears (Horizontal axis)
S = Snap-in
M = Mounting ears (Vertical axis)

**Switch Option**
0 = Blank
S = Double pole single throw (DPST)

**Fuse Options**
D = Dual fuse
S = Single fuse

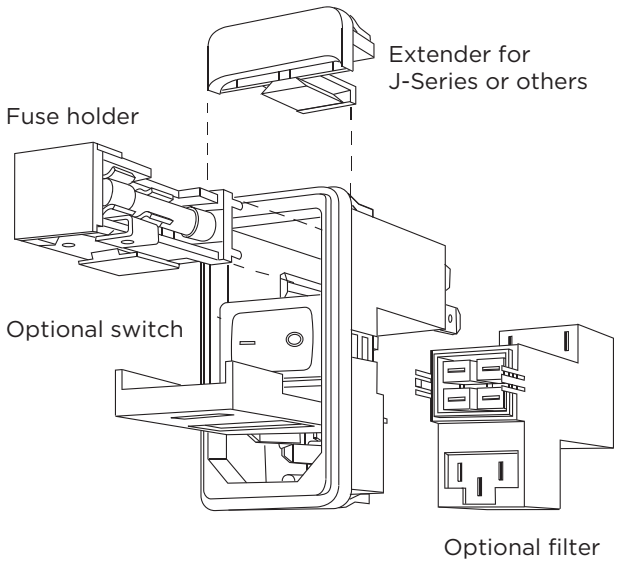
**Filter Current**
0 = No filter
3 = 3A
6 = 6A
X = 10A

**Extender Option**
0 = None
C = FN260
J = J Series
L = L Series[1]

**Input Voltage Select**
0 = Single voltage
S = Dual voltage[2] select (SMPS)
X = Dual voltage[2] select (series/parallel)

**Filter Type**
0 = No filter
B = Interconnection block[3]
H = Medical Filter
L = High Performance Medical[4]
S = General purpose
Z = High Performance[4]

**Shield Options**
0 = No shield
A = Filter shield
B = Complete Shield
C = Complete can (for L & Z models)




### Notes:

1 L Series extender cannot be added to units with a shield. No style of extender can be added to units with B or C shields.

2 Dual voltage options are not available with L or Z Filter Types

3 When using the interconnection block, the last 3 digits of the part number are BX (0, A, or B)

4 High performance versions (L or Z filter types) are available with any switch or fuse option but only in 6 or 10A with horizontal (PE) or vertical (PM) mounting ears, single voltage (0), complete shield (C) and no extenders

* For alternative switch orientation options, please contact technical support or your Corcom product sales representative

The part number **PS0SXSS6B** would represent:

P Series (P) with a snap-in mount (S) with no extender (0) a switch (S) dual voltage select (X) single fusing (S) general purpose filter (S) for 6A (6) with a B shield (B)





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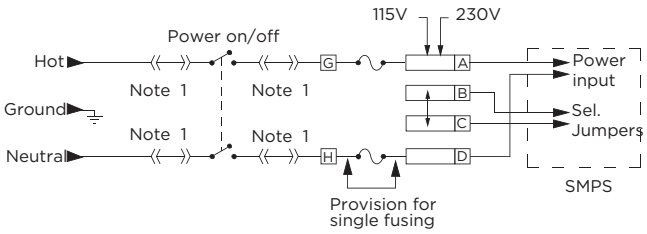
# P Series

## Voltage Selection

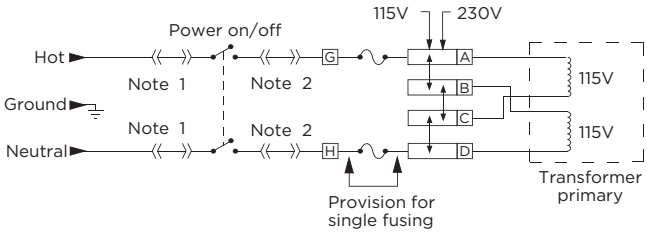
P series power entry modules include the voltage selector integral with the fuse holder. Three voltage selection options are each supported by one of three different fuse holders. The fifth digit of the part number specifies which of the three fuse holders is included to provide the desired voltage selection. The single voltage fuse holder (option "0") has no voltage indication markings. The dual voltage options select 115V or 230V by removing the fuse holder, flipping it over, and reinstalling it. Voltage selection is indicated through a window in the P Series door. The "SMPS" fuse holder (option "S") jumpers two independent P Series terminals to indicate 230V operation to a switching mode power supply. The "PRSR" parallel/serial fuse holder (option "X") connects the windings of the equipment's dual primary transformer (not included) to step down the voltage or double up the current. The markings on the voltage selection fuse holders also remind the user to install the appropriate fuse for the current at the selected voltage.

## Input Voltage Selection Schemes

### S - "SPMS" Jumper Type




### X - "PRSR" Parallel / Serial Type for Dual Primary Transformer




Note 1: Additional jumper wiring is required if a filter or interconnection module is not used.
Note 2: Location of optional filter. Additional jumper wiring is required if a filter or interconnection block is not used.

## Shield Options

The P series offers several RF shield options. The metal shield, optional on S, H and B filtered models, provides shielding from radiated emissions and provides an RF ground for the filter to the panel. This shield is available in two versions; a shield of the filter components (designated by an A as the final digit) and a complete shield (designated by B as the final digit).

The A shield covers the filter portion of the module and increases performance of the filter by protecting the components from RFI coupling. This shield allows the use of the C or J extender.

The B shield covers the entire power entry module with metal, protecting the filter from RFI coupling, and covering the mounting cut-out to block RFI entering or leaving the equipment. The B shield cannot be used with any extender.

A complete metal enclosure is integral to both the high performance L and Z models, and must be specified by a C in the part number's final digit. This option is only available with the L or Z models.

*"A" Shield*

*"B" Shield*



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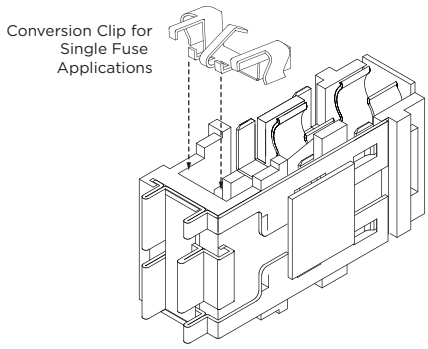
# P Series

## Fuseholder

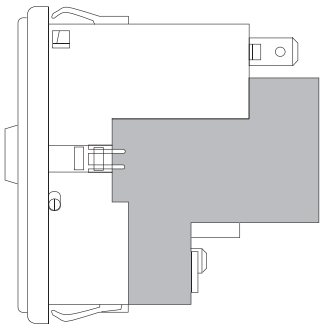
Another feature of the P series power entry module is the versatile fusing arrangement. The fuse holder can hold two 1/4" x 1-1/4" (3AG) or 5 x 20mm (metric) fuses. Single fusing is supported with a conversion clip that shorts one of the two fuse positions, and is designated by an S in the sixth part number digit. A module designated for a single fuse may be reconfigured by the manufacturer or the user to accept two fuses by simply removing the shorting clip. For applications intended for dual fusing, specify a D in the sixth part number digit.




## Interconnection Block

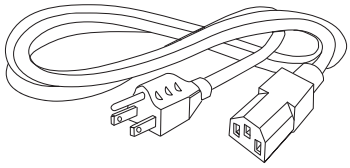
Installation of the unfiltered versions of the P series requires wiring of the IEC socket terminals to the optional switch and the switch to the fuse holder. Labor can be eliminated by ordering the module with an interconnection block. This feature, designated by "BX" in the seventh and eighth digits, pre wires the module so that only connection to the equipment must be done during installation. The interconnection block includes a plastic case to prevent access to the internal connections.

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

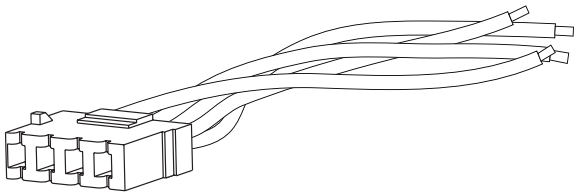


## Accessories

**GA400**: NEMA 5-15P to IEC 60320-1 C-13 line cord



**PA100**: Power interconnect assembly
For voltage select models. Designed for use with either filtered or non-filtered units, 6" wire leads



**PA101**: Plug only

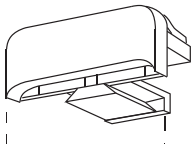
**PA102**: Pins only for use with PA101

**PA105**: Same as PA100 but with two wires for units with no voltage selection

**PA400**: J Extender
Extends P Series height to fit J panel cutout

**PA410**: L Extender
Extends P Series width to fit L panel cutout

**PA420**: C Extender
Extends P Series height to fit C panel cutout



PA400
J Series Extender

*C & L Extenders can not be used with B Shields.*

*L Extender can not be used with shields*





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# P Series

## Specifications

**Maximum leakage current each Line to Ground:**

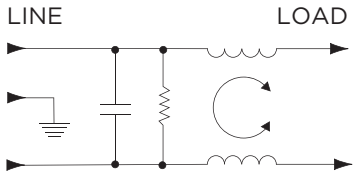
| | H & L Models | S & Z Models |
|---|---|---|
| @ 120 VAC 60 Hz: | 2 µA | .25 mA |
| @ 250 VAC 50 Hz: | 5 µA | .50 mA |

**Hipot rating (one minute):**

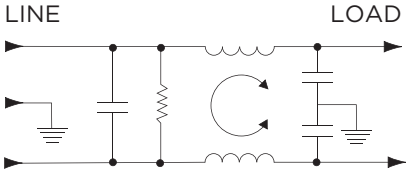
| | |
|---|---|
| Line to Ground: | 2250 VDC |
| Line to Line: | 1450 VDC |
| **Rated Voltage(max.):** | 250VAC |
| **Operating Voltages:** | |
| Selectable or Fixed | 115/230 VAC |
| **Operating Frequency:** | 50/60 Hz |
| **Rated Current:** | Non-Filtered – 10A |
| | Filtered – 3, 6 or 10A |
| **Fuseholder:** | Accepts one or two fuses .25 x 1.25"(not included) or 5 x 20mm (not included) |
| **Switch:** | DPST |
| | 10,000 operations at 51A max. inrush |

## Electrical Schematics

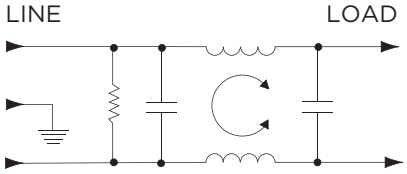
### H Model



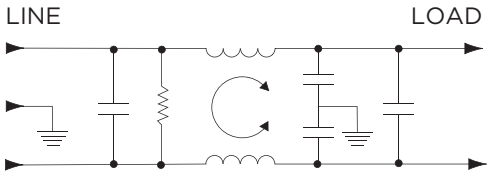

### S Model




### L Model

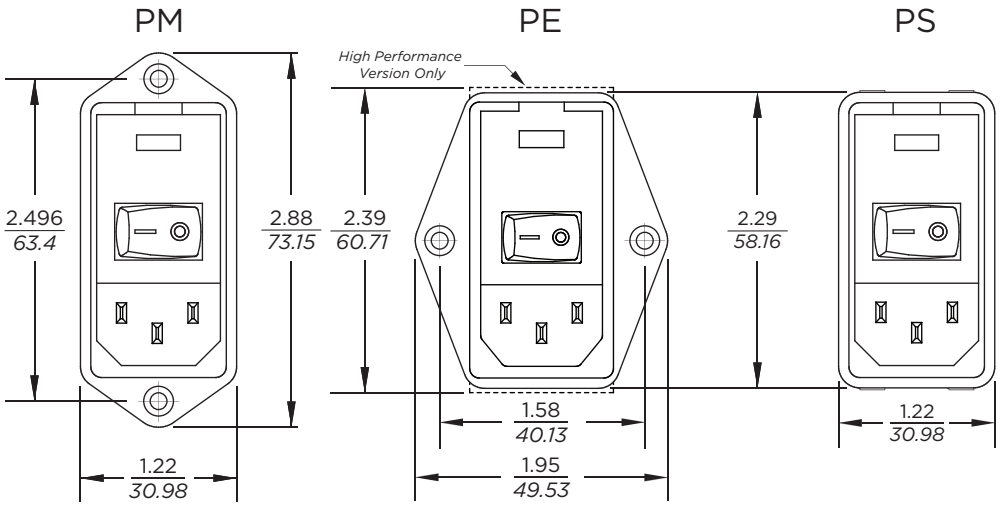



### Z Model




## Case Styles

### Front View




Typical Dimensions:

Line Inlet (1): IEC 60320-1 C14

Mounting holes (2): .135 [*3.43*] Dia. with .23 [*5.9*] Dia. x 82° countersink for #4 flathead screw (PM, PE only)



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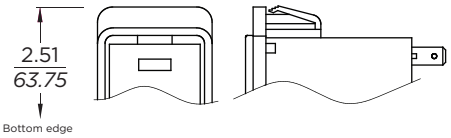
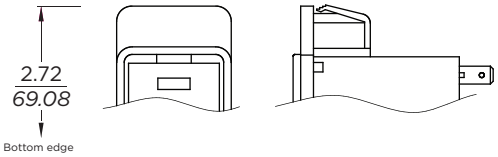
## Case Styles *(continued)*

### Extender Options

C Extender - FN260

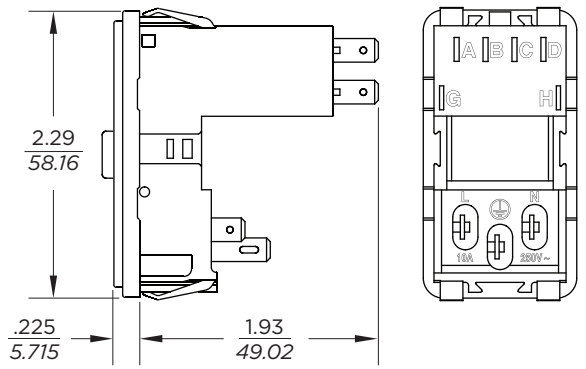



J Extender - J Series

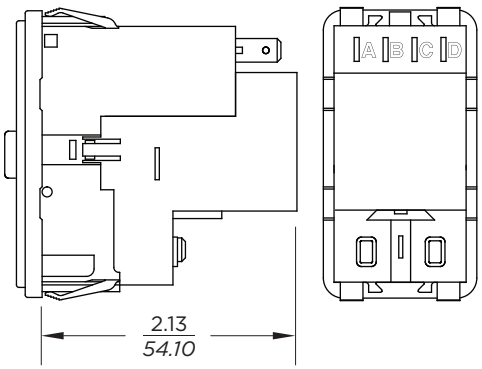



### Standard Models - Side and Rear View

Non-Filtered



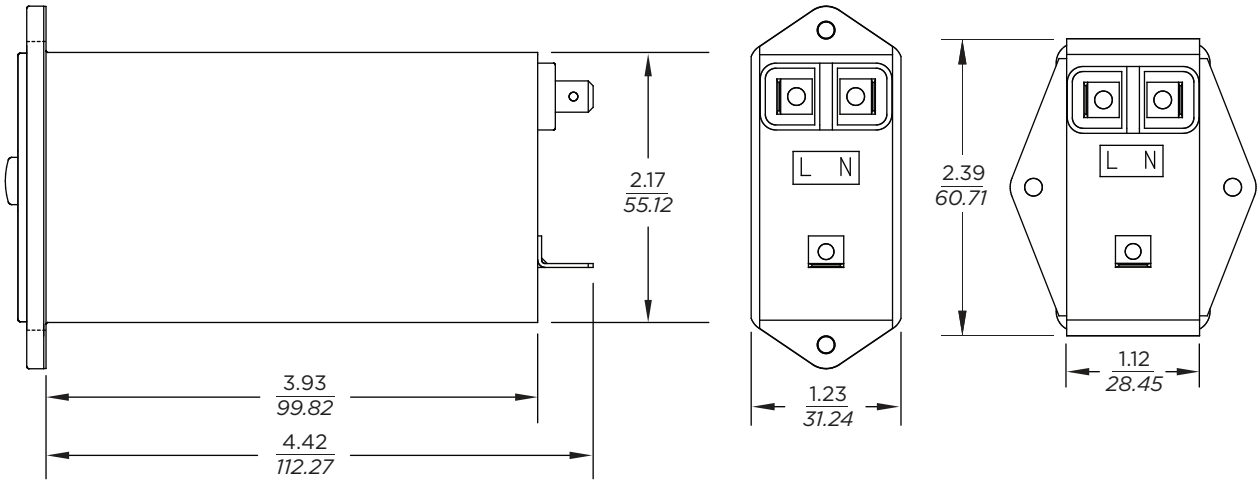

Filtered




Typical Dimensions:

| | |
|---|---|
| Terminals: | .187 [*4.8*] with .055 [*1.4*] Dia. hole. Recommended for use with mating connectors - no solder |
| Ground Terminal (1): | .187 [*4.8*] with .112 x .06 [*2.8 x 1.5*] slot. Recommended for use with mating connectors - no solder |

### High Performance Models - Side and Rear View




Typical Dimensions:

| | |
|---|---|
| Terminals: | .250 [*6.4*] with .07 [*1.8*] Dia. hole. Recommended for use with mating connectors - no solder |
| Ground Terminal (1): | .250 [*6.4*] with .16 x .07 [*4.1 x 1.8*] slot. Recommended for use with mating connectors - no solder |





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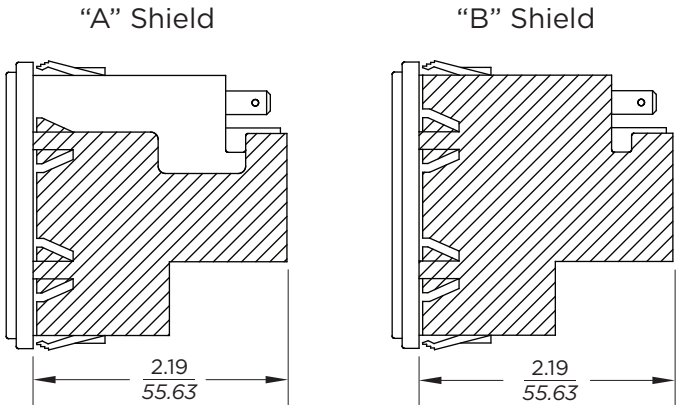
# P Series

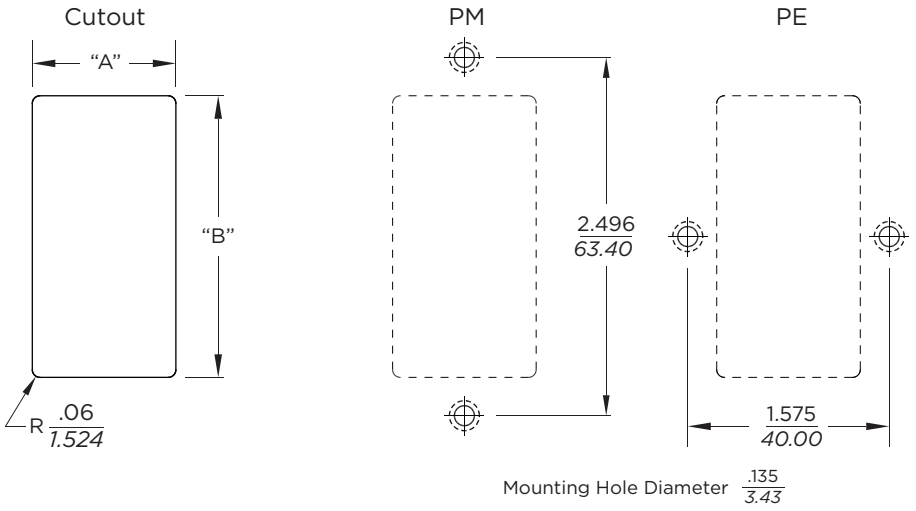
## Case Styles *(continued)*

### Shield Options




*Note: Shields can only be used with filtered models. B shield may not be used with J or C extender*

### Recommended Panel Cutout




*Note: For snap-in applications, the "A" sides must have a .020 [.508] radius on the installation side.*
*Dimensions are for front mount applications. Rear mount dimensions should be determined based on customer's application parameters. Snap-in models allow for front mounting only. Not recommended for use in plastic panels.*

| Style | Dimension "A" +.008 - .000 | | | Dimension "B" +.008 - .000 | |
|---|---|---|---|---|---|
| | No Shield | Shielded | High Performance | Standard | High Performance |
| PM | 1.06 [*26.92*] | 1.12 [*28.45*] | 1.12 [*28.45*] | 2.13 [*54.10*] | 2.201 [*55.91*] |
| PE | 1.12 [*28.45*] | 1.12 [*28.45*] | 1.15 [*29.21*] | 2.201 [*55.91*]* | 2.201 [*55.91*] |
| PS | 1.06 [*26.92*] | 1.12 [*28.45*] | - | 2.201 [*55.91*]* | - |
| PSC | 1.06 [*26.92*] | 1.12 [*28.45*] | - | 2.52 [*64.01*] | - |
| PSJ | 1.06 [*26.92*] | 1.12 [*28.45*] | - | 2.60 [*66.04*] | - |
| PSL | 1.12 [*28.45*] | - | - | 2.201 [*55.91*]* | - |

**For panel thickness of 0.031 - 0.079 [0.787 - 2.01] only. Use 2.213 [56.21] for panel thickness of 0.083 - 0.114 [2.0 - 2.90]*



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# P Series

## Performance Data

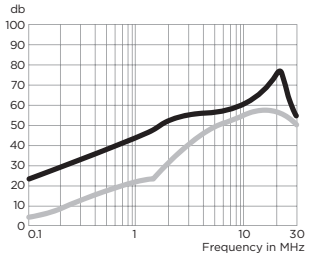
### Typical Insertion Loss

Measured in closed 50 Ohm system

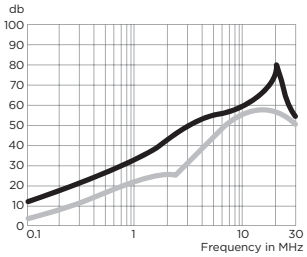
Common Mode / Asymmetrical (L-G)
Differential Mode / Symmetrical (L-L)

### S Models

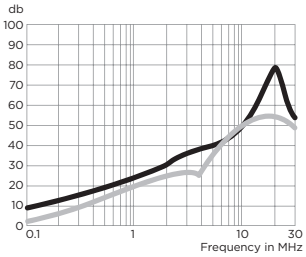
3A




6A

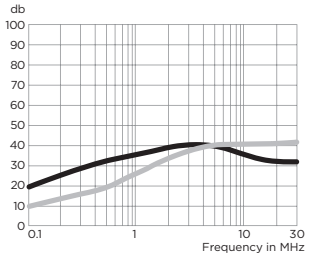



10A

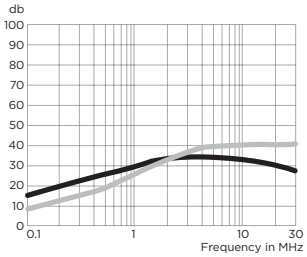



### H Models

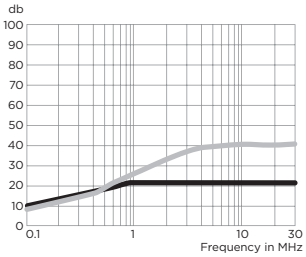
3A




6A

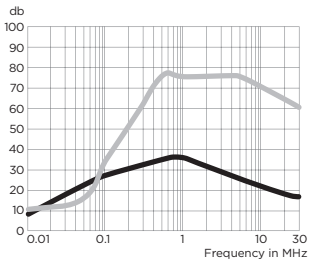



10A

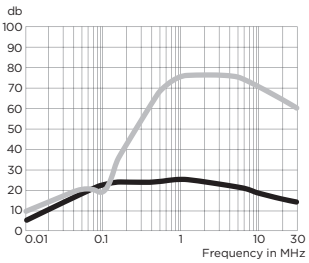



### L Models

6A

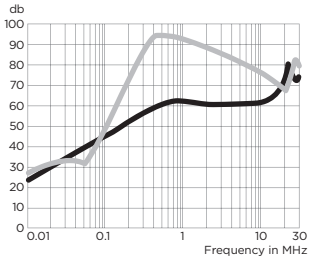



10A

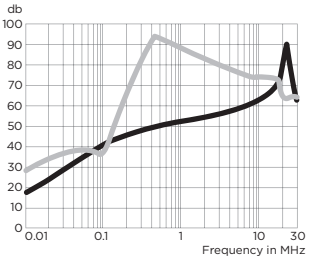



### Z Models

6A




10A








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.

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# P Series

## Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

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

Differential Mode / Symmetrical (Line to Line)

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

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

| Current Rating | Frequency – MHz | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | .01 | .05 | .1 | .15 | .5 | 1 | 5 | 10 | 30 |
| **L Models** | | | | | | | | | |
| 6A | 10 | 15 | 34 | 44 | 75 | 75 | 75 | 70 | 60 |
| 10A | 10 | 20 | 20 | 35 | 67 | 75 | 75 | 70 | 60 |
| **Z 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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# OCEAN CHIPS
## Океан Электроники
## Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

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