

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 CHAMELEON module has four 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 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 non-patient care equipment.

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 Models – 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.



PE Filter with "A" Shield

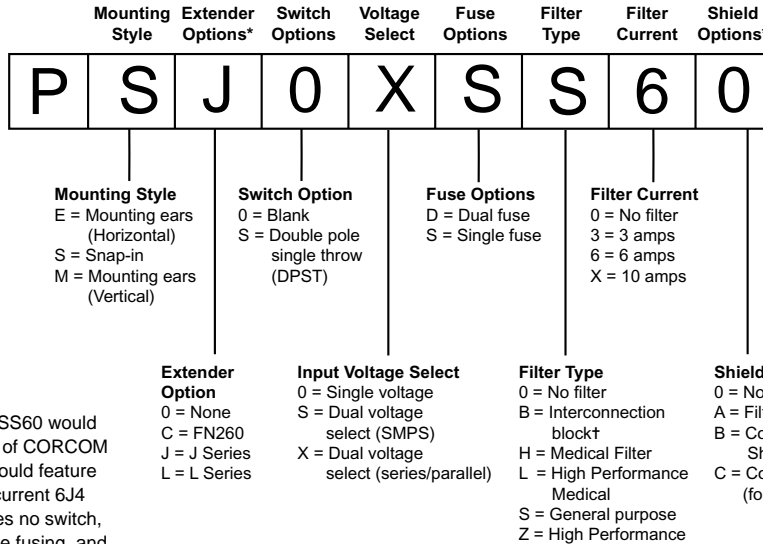


Tyco Electronics
CORCOM Products

P Series

P Series Part Number Schematic

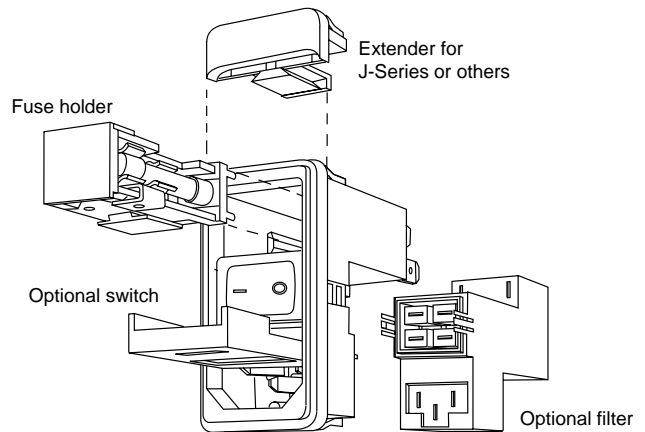
Part numbers are constructed by selecting the alphanumeric character which represents the desired feature.



The part number PSJ0XSS60 would represent the equivalent of CORCOM J Series 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.

Part Numbers (partial list)

| | |
|-----------|-----------|
| PS000S000 | PE000DL6C |
| PS0XSS000 | PE000DLXC |
| PS0S0SBX0 | PE000DZ6C |
| PS000SH30 | PE000DZXC |
| PS00SDH3A | PE000SL6C |
| PS0S0SH60 | PE000SLXC |
| PS0SSDH6A | PE000SZ6C |
| PS00SSHXA | PE000SZXC |
| PS0SSSHX0 | PE000SS30 |
| PS000SS30 | PE0S0SS30 |
| PS0S0SS30 | PE000SS60 |
| PS0SSSS6B | PE0SSSSX0 |
| PS0SXDS60 | PE000SZXC |
| PSJ0XSS60 | PE0SSS000 |
| PSLS0SS60 | PE0SSSH60 |
| PS0SXSS60 | PE0S0DL6C |
| PS00SSSXA | PE0S0DLXC |
| PS0SSSSX0 | PE0S0DZ6C |
| | PE0S0DZXC |
| | PE0S0SL6C |
| | PE0S0SLXC |
| | PE0S0SZ6C |
| | PE0S0SZXC |



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.

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

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.

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 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 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 better prevent access to the terminals and connections.

Wiring can be further simplified by ordering a PA100 connector assembly. See page 131 for accessories.

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



A Shield

B Shield

Filter Options

Four 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.

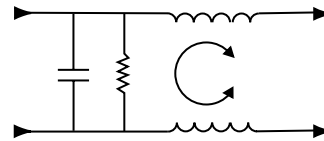
The high-performance Z models are available for general applications requiring higher attenuation.

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

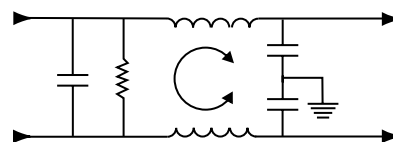
The high-performance L models are available for medical applications requiring higher attenuation.

Electrical Schematics

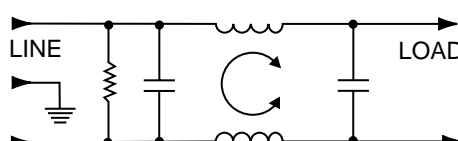
H Model



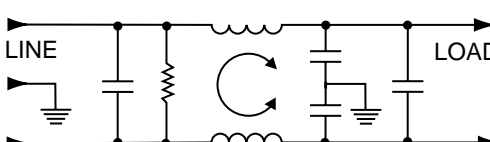
S Model



L Model



Z 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 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.

P Series

Specifications – Unfiltered Models

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

Operating frequency: 50/60 Hz

Rated voltage (max.): 250 VAC

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

Operating voltages: Selectable or fixed 115/230 VAC

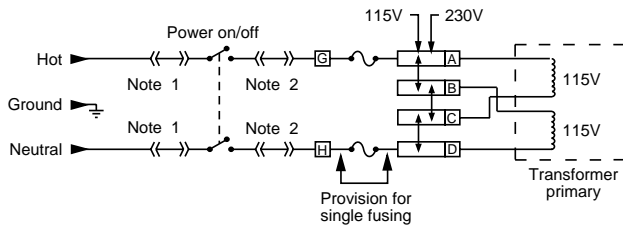
Fuseholder: Accepts one or two fuses
 1/4 x 1-1/4 or 5 x 20 mm
 Conversion clip provided on fuseholder for single fuse models.

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

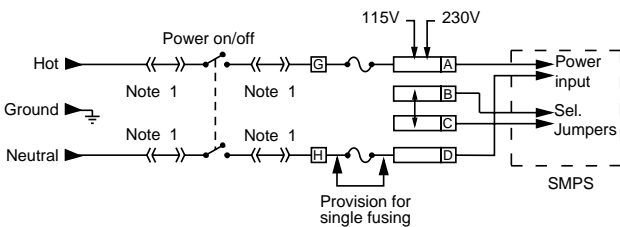
Terminals: .187 x .032 [4.8 x .87] terminal tabs
 Recommended use connector - no solder

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 2 µA
 S Models 0.25 mA
 @ 250 VAC 50 Hz: H Models 5 µA
 S Models .50 mA

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

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: .187 x .032 [4.8 x .87] 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 |

| Current Rating | Frequency-MHz | | | | | | | | |
|-----------------|---------------|-----|----|-----|----|----|----|----|----|
| | .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

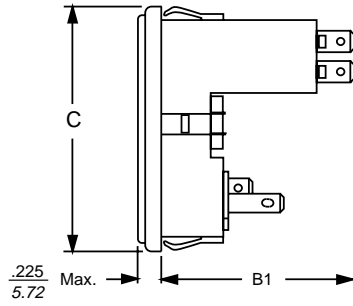
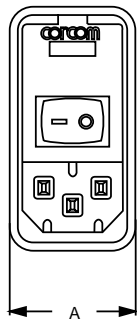
| Current Rating | Frequency-MHz | | | | | | | | |
|-----------------|---------------|-----|----|----|----|----|----|----|--|
| | .10 | .15 | .5 | 1 | 3 | 5 | 10 | 30 | |
| H Models | | | | | | | | | |
| 3A | 2 | 4 | 12 | 18 | 31 | 40 | 48 | 41 | |
| 6A | 2 | 4 | 12 | 16 | 26 | 35 | 40 | 35 | |
| 10A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

| Current Rating | Frequency-MHz | | | | | | | | |
|-----------------|---------------|-----|----|-----|----|----|----|----|----|
| | .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 |

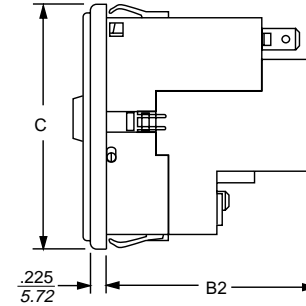
P Series

Case Styles

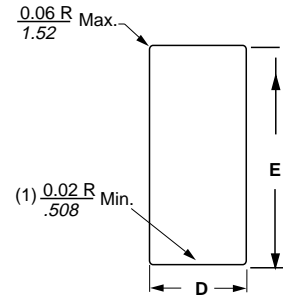
PS/PSL



Filtered

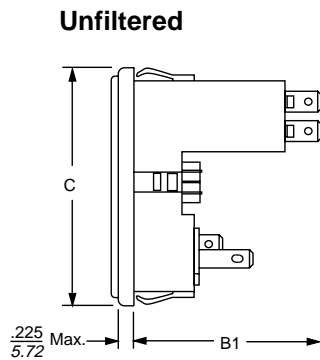
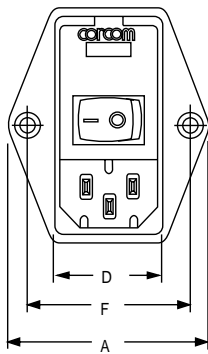


Panel Cutout

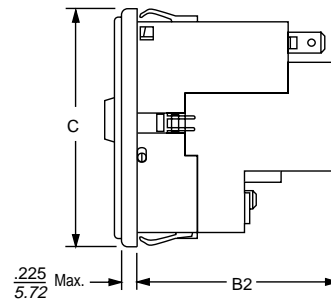


(1) For snap-in applications, the D sides of the cutout must have a .02 [.508] radius on the installation side. Note: Snap-in models allow front mounting only. PS not recommended for plastic panels.

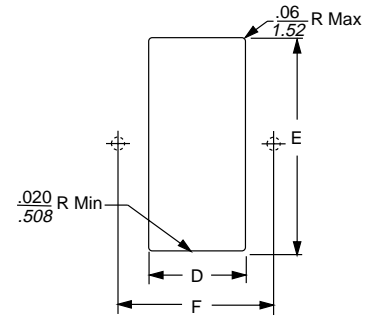
PE



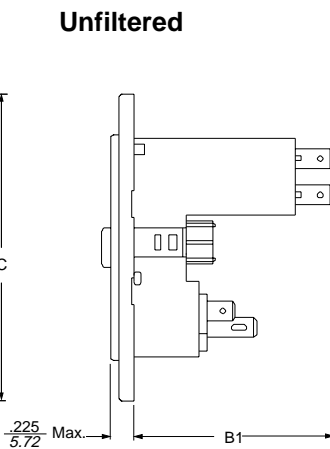
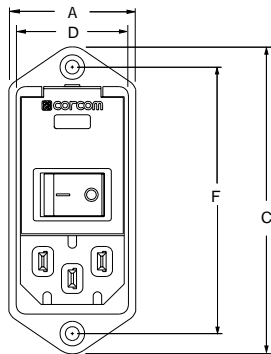
Filtered



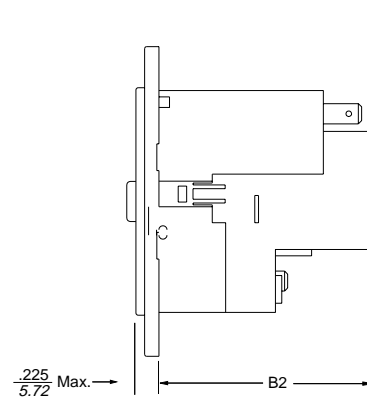
Panel Cutout



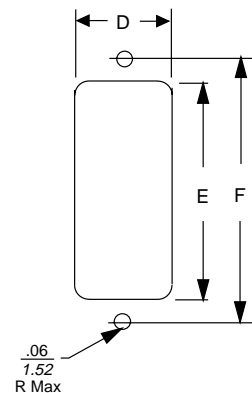
PM



Filtered



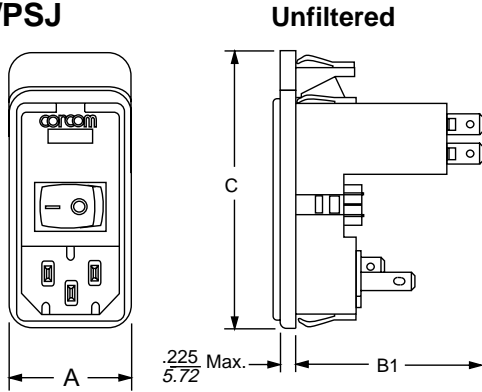
Panel Cutout



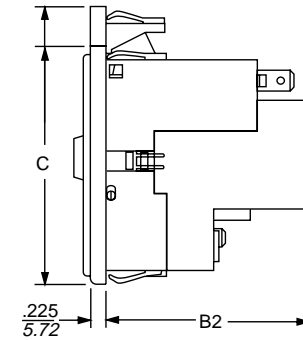
P Series

Case Styles

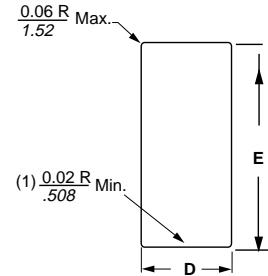
PSC/PSJ



Filtered



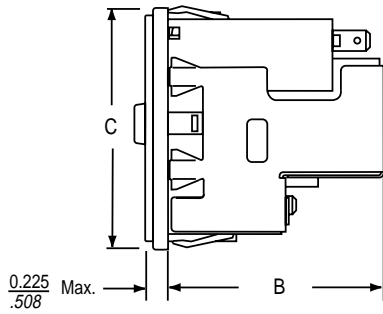
Panel Cutout



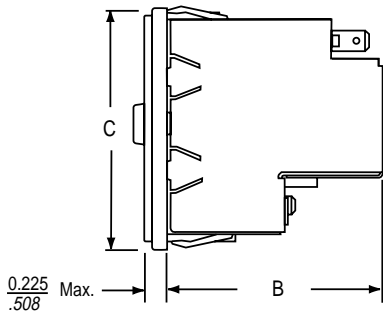
(1) For snap-in applications, the D sides of the cutout must have a .02 [.508] radius on the installation side. Note: Snap-in models allow front mounting only. PS not recommended for plastic panels.

Filtered Versions

"A" Shield



"B" Shield



Case Dimensions

| Part No. | A (max) | B1 (max) | B2 (max) | C (max) | D $\frac{+.008/-0.000}{+.20/-0.00}$ | E $\frac{+.008/-0.000}{+.20/-0.00}$ | F |
|----------|----------------------|----------------------|---------------------|----------------------|---|--|----------------------|
| PS | 1.24 31.49 | 1.93 49.02 | 2.13 54.1 | 2.31 58.67 | 1.06Δ 26.93 | 2.201* 55.91 | — |
| PSL | 1.24 31.49 | 1.93 49.02 | 2.13 54.1 | 2.31 58.67 | 1.12 28.45 | 2.201* 55.91 | — |
| PE | 1.98 50.29 | 1.93 49.02 | 2.13 54.1 | 2.31 58.67 | 1.122 28.5 | 2.201* 55.91 | 1.575 40.0 |
| PM | 1.24 31.49 | 1.93 49.02 | 2.13 54.1 | 2.9 73.66 | 1.06 26.93 | 2.13 54.1 | 2.496 63.4 |
| PSC | 1.24 31.49 | 1.93 49.02 | 2.13 54.1 | 2.51 63.75 | 1.06 26.93 | 2.52 64.01 | — |
| PSJ | 1.24 31.49 | 1.93 49.02 | 2.13 54.1 | 2.72 69.09 | 1.06 26.93 | 2.6⁺ 66.0 | — |

* Panel cutout for thickness of .031 - .079 [0.8 - 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 [0.76 - 2.29].

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

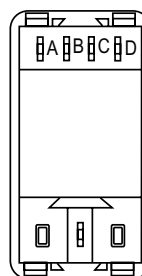
Shields can be used only with filtered models.

Shields add approximately 0.06" to depth.

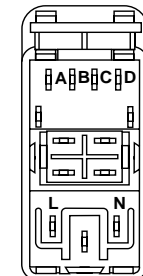
B shield may not be used with J or C extender.

Rear View

Filtered



Unfiltered



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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