

## Single Row Terminal Blocks

# A3, LP3 & CB3

### Dimensions Inches (Millimeters)

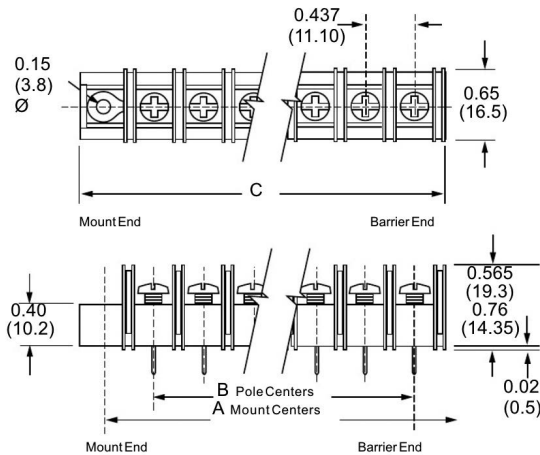
#### A3 & LP3



A31930307



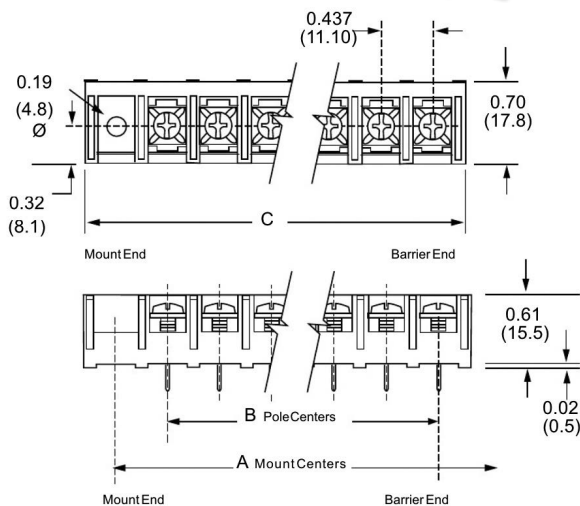
LP307102



#### CB3



CB35110407MP



### Specifications

**Rating:** A3: 30A, 600V\* LP3: 30A, 150V\* CB3: 30A, 600V\*

**Wire Range:** #12-22 AWG Cu

**Center Spacing:** 0.437" or 7/16" (11.10mm)

**Screw Size:** #6-32 zinc-plated phillips screws.

**Torque Rating:** 9 lb-in.

**Base:** Standoffs standard for easy flux washing.

**Distance Between Barriers:** 0.32" (8.1mm)

**Recommended PCB Hole Diameter:** 0.076" (1.93mm)

**Operating Temperature:** 105°C (221°F) max., -40°C (-40°F) min.

**Molded Material:** Black, UL Rated 94V0 Thermoplastic

**Breakdown Voltage:** 3500V (A3 & LP3); 8200V (CB3)

**Agency Information:** UL File E62622, CSA 47235; IEC Compliance, CE Certified

\* 30A Rating achieved with a #10 copper wire crimped to a ring terminal; 20 Rating without ring terminal.

| Poles | MOUNTING ENDS ONLY |          | BARRIER & MOUNTING ENDS |          | BARRIER ENDS ONLY |
|-------|--------------------|----------|-------------------------|----------|-------------------|
|       | A Mounting Ctrs.   | C Length | B Pole Ctrs.            | C Length | C Length          |
| 02    | 1.31               | 1.73     | 0.43                    | 0.98     | 0.98              |
| 03    | 1.75               | 2.17     | 0.87                    | 1.43     | 1.43              |
| 04    | 2.18               | 2.61     | 1.31                    | 1.87     | 1.87              |
| 05    | 2.62               | 3.05     | 1.75                    | 2.31     | 2.31              |
| 06    | 3.06               | 3.48     | 2.18                    | 2.75     | 2.75              |
| 07    | 3.50               | 3.92     | 2.62                    | 3.18     | 3.18              |
| 08    | 3.93               | 4.36     | 3.06                    | 3.62     | 3.62              |
| 09    | 4.37               | 4.80     | 3.50                    | 4.06     | 4.06              |
| 10    | 4.81               | 5.23     | 3.93                    | 4.50     | 4.50              |
| 11    | 5.25               | 5.67     | 4.37                    | 4.93     | 4.93              |
| 12    | 5.68               | 6.11     | 4.81                    | 5.37     | 5.37              |
| 13    | 6.12               | 6.55     | 5.25                    | 5.81     | 5.81              |
| 14    | 6.56               | 6.98     | 5.68                    | 6.25     | 6.25              |
| 15    | 7.00               | 7.42     | 6.12                    | 6.68     | 6.68              |
| 16    | 7.43               | 7.86     | 6.56                    | 7.12     | 7.12              |
| 17    | 7.87               | 8.30     | 7.00                    | 7.56     | 7.56              |
| 18    | 8.31               | 8.73     | 7.43                    | 8.00     | 8.00              |
| 19    | 8.75               | 9.17     | 7.87                    | 8.43     | 8.43              |
| 20    | 9.18               | 9.60     | 8.31                    | 8.87     | 8.87              |
| 21    | 9.62               | 10.05    | 8.50                    | 9.31     | 9.31              |
| 22    | 10.06              | 10.48    | 9.18                    | 9.75     | 9.75              |
| 23    | 10.50              | 10.92    | 9.62                    | 10.18    | 10.18             |
| 24    | 10.93              | 11.36    | 10.06                   | 10.62    | 10.62             |
| 25    | 11.37              | 11.80    | 10.50                   | 11.06    | 11.06             |
| 26    | 11.81              | 12.23    | 10.98                   | 11.50    | 11.50             |
| 27    | —                  | —        | 11.81                   | 12.37    | 12.37             |
| 28    | —                  | —        | 11.37                   | 11.07    | 11.07             |



Powering Business Worldwide

## Part Numbering System

| Family                       | Terminal Style                                                                                                                                                                                                                                                   | Base/End                                                                                                                                                                               | Poles                                                                                                                                                               | Screw Options                                                                                                                                                                                                                                | Options                                                                                                                                                                                                                                                                            |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> <b>3</b>            |                                                                                                |                                                                                                       |   |                                                                        |                           |
| <b>A3</b> - standard barrier | <b>01</b> - handwired<br><b>02</b> - printed circuit<br><b>03</b> - non feed-thru<br><b>04</b> - wire wrap tail<br><b>05</b> - extended handwired<br><b>07</b> - extended pin<br><b>09</b> - 0.250 QC short<br><b>10</b> - 0.187 QC<br><b>19</b> - 0.250 QC long | <b>1</b> - std. base/mount end<br><b>2</b> - std. base/barrier<br><b>3*</b> - insulator base/mount end<br><b>4*</b> - insulator base/barrier end<br><b>5**</b> - closed base/mount end | <b>02 to 28</b> barrier end<br><b>02 to 26</b> mount end                                                                                                            | Blank-std. screws<br><b>03</b> - stainless steel<br><b>04</b> - brass nickel-plated<br><b>07</b> - steel SEMS zinc-plated***<br><b>09</b> - brass SEMS nickel-plated***<br><b>07WR</b> - steel SEMS wire ready<br><b>CA†</b> - captive screw | <b>AB</b> - angle mnt. options (pg 18)<br><b>A1 to A9</b> - 0.250" QC<br><b>B1 to B9</b> - 0.187" QC<br><b>L1 to L6</b> marking options (pg 25)<br><b>MP, MT</b> - mounting plates (pg 18)<br><b>RC</b> - retaining clips (pg 18)<br><b>R30 to R66</b> - right angle bends (pg 18) |

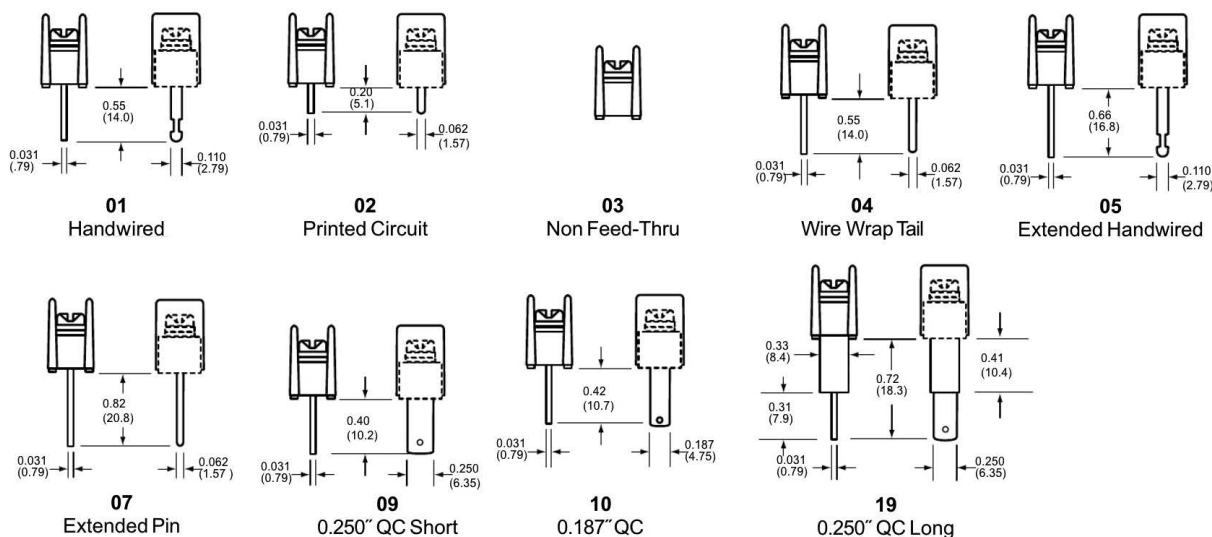
\* Base/End Styles 3 and 4 not available with 02, 03, and 09 terminals.

\*\* Base/End Note: 5 Style only available with 03 terminals.

\*\*\* SEMS screws not available with hardware options

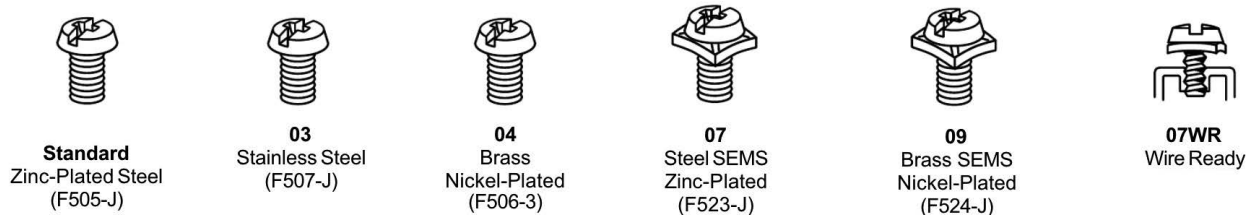
† Not compatible with 03 stainless steel screw option.

## Terminal Styles Inches (Millimeters)



## Screw Options

(Bulk ordering part numbers are in parentheses)



Part Numbering System

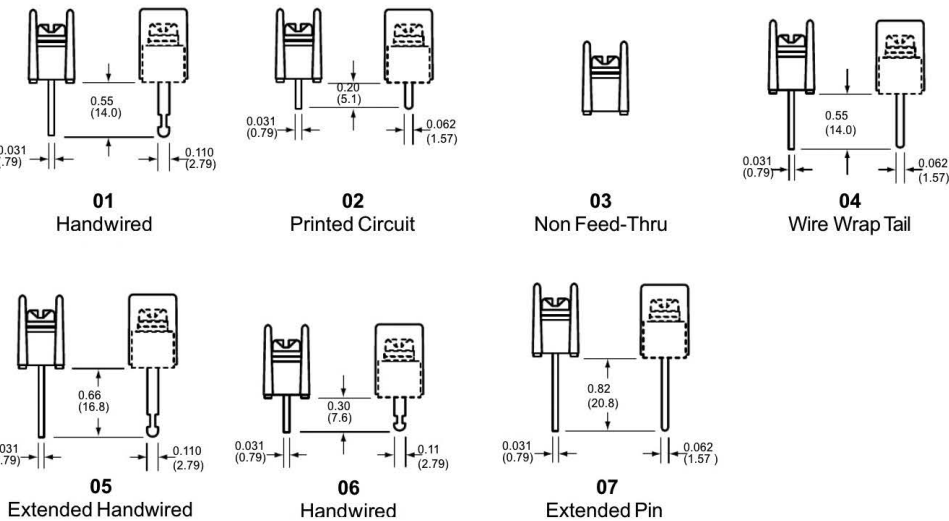
| Family                                                                  | Terminal Style                                                                                                                                                                                                                           | Base/End                                                                                                                                                                                                                            | Poles                                                                                                          | Screw Options                                                                                                                                                                                                                         | Options                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>L</div> <div>P</div> <div>3</div> <p>LP3 - low profile barrier</p> | <div></div> <div></div> <p> <b>01</b> - handwired<br/> <b>02</b> - printed circuit<br/> <b>03</b> - non feed-thru<br/> <b>04</b> - wire wrap tail<br/> <b>05</b> - extended handwired<br/> <b>07</b> - extended pin                 </p> | <div></div> <p> <b>1</b> - std. base/mount end<br/> <b>2</b> - std. base/barrier<br/> <b>3*</b> - insulator base/mount end<br/> <b>4*</b> - insulator base/barrier end<br/> <b>5**</b> - closed base/mount end                 </p> | <div></div> <div></div> <p> <b>02 to 28</b> barrier end<br/> <b>02 to 26</b> on mount end                 </p> | <div></div> <div></div> <p>                     Blank-std. screws<br/> <b>00</b> - screws shipped<br/> <b>04</b> - brass nickel-plated<br/> <b>07</b> - steel SEMS zinc-plated***<br/> <b>CA</b> - captive screw                 </p> | <div></div> <div></div> <div></div> <p> <b>A1 to A9</b> - 0.250" QC<br/> <b>B1 to B9</b> - 0.187" QC<br/> <b>L1 to L6</b> marking options (pg 25)<br/> <b>MP</b> - mounting plates (pg 18)<br/> <b>R30 to R66</b> - right angle bends (pg 18)                 </p> |

\* A2 only.

\*\* Not compatible with 03-stainless steel screws.

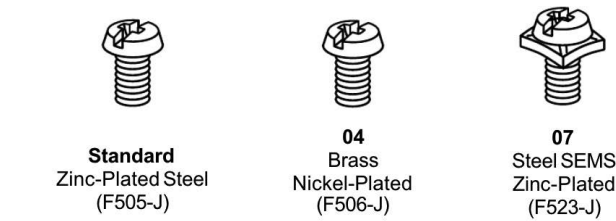
\*\*\* SEMS screws not available with hardware options

Terminal Styles Inches (Millimeters)



Screw Options

(Bulk ordering part numbers are in parentheses)



## Hardware Options Inches (Millimeters)

(Bulk ordering part numbers are in parentheses)

### Jumpers



†J201  
Flatslip-on  
(J201-J)



†OJ3  
(OJ3-J)



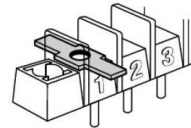
†OJ7  
LP3 Only  
(OJ7-J)



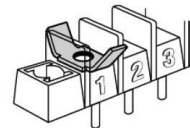
†OJ5  
(OJ5-J)

† Contact Eaton for desired configuration.

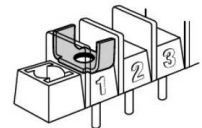
### Quick Connects Blade Width A = 0.250" Blade Width B = 0.187"



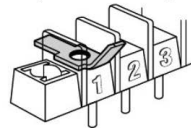
A1 & B1  
(2A1-J & 2B1-J)



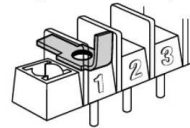
A2 & B2  
(2A2-J & 2B2-J)



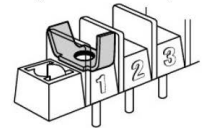
A3 & B3  
(2A3-J & 2B3-J)



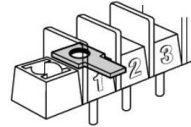
A4 & B4  
(2A4-J & 2B4-J)



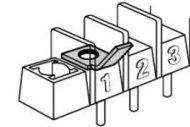
A5 & B5  
(2A5-J & 2B5-J)



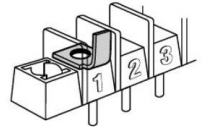
A6 & B6  
(2A6-J & 2B6-J)



A7 & B7  
(2A7-J & 2B7-J)



A8 & B8  
(2A8-J & 2B8-J)



A9 & B9  
(2A9-J & 2B9-J)

## Base/End Options Inches (Millimeters)



1 - Standard base/mount end



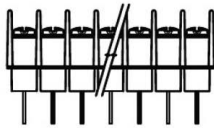
2 - Standard base/barrier end



3 - Insulator base/mount end



0.41  
(10.4)



4 - Insulator base/barrier end



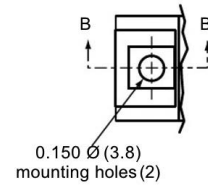
0.41  
(10.4)



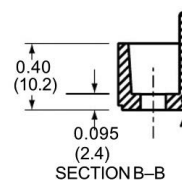
5 - Closed base/mount end



### Mount End Details



0.150 Ø (3.8)  
mounting holes (2)



1, 3 & 5 Mount End

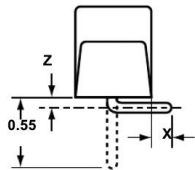
Note: On 1, 3 and 5 bases, Eaton may drill a terminal spacing to be a mount end. There will be no fit/form/function effect of mounting the product

Mounting Options Inches (Millimeters)

Right Angle Mounting Bracket

Right angle terminals are offered on the A3 & LP3. Configurations are defined in these dimensions: X = pin extension beyond the block base; Z = length from block base to centerline of the terminal tip. Standard bends consist of the X and Z dimensions shown in the chart. Specify by adding the selected Bend Option Code to the terminal part number.

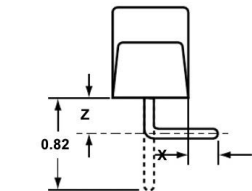
04 Terminal Bend Configurations



| Bend Option Code | X<br>(minimum) | Z    | Available<br>w/insulator base |
|------------------|----------------|------|-------------------------------|
| R36              | 0.02           | 0.22 | No                            |
| R42              | 0.08           | 0.16 | No                            |
| R46              | 0.12           | 0.12 | No                            |
| R50              | 0.16           | 0.08 | No                            |

Dimensions in inches. To convert to millimeters, multiply by 25.4.

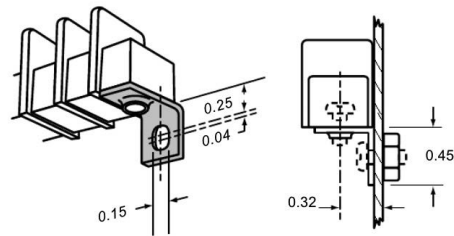
07 Terminal Bend Configurations



| Bend Option Code | X<br>(minimum) | Z    | Available<br>w/insulator base |
|------------------|----------------|------|-------------------------------|
| R36              | 0.02           | 0.49 | Yes                           |
| R50              | 0.16           | 0.35 | No                            |
| R66              | 0.32           | 0.19 | No                            |

Dimensions in inches. To convert to millimeters, multiply by 25.4.

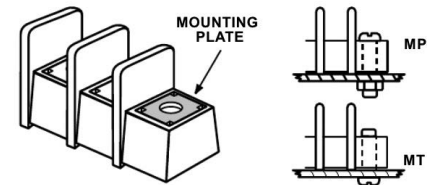
Angle Brackets (A3 only)



Option AB

Angle brackets enable block to be fastened at right angles to normal mount position. Bulk part number **2AB-J**.

Mounting Plates



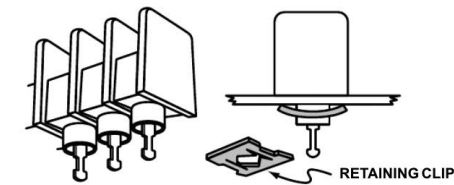
Options MP & MT

**MP** Metal inserts with 0.150" dia. hole accept #6 screw.

**MT** Metal inserts with tapped hole accept #6-32 screw.

Bulk part number **2MP-J, 2MT-J**.

Retaining Clip



Options RC

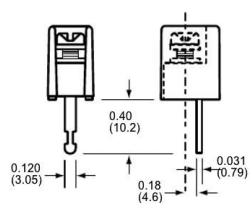
Use on standoff tubes. Fit panels up to 0.125" thick. Two clips for every five positions. Supplied unassembled. Bulk part number **H541-J**.

## Part Numbering System

| Family                                 | Terminal Style                                                                                                                                                                                                        | Base/End                                       | Poles                                                                | Screw Options                                                                                               | Options                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>C</div> <div>B</div> <div>3</div> | <div></div> <div></div>                                                                                                                                                                                               | <div></div>                                    | <div></div> <div></div>                                              | <div></div> <div></div>                                                                                     | <div></div> <div></div> <div></div>                                                                                                                                                                                                                   |
| <b>CB3</b> - closed back               | <b>01</b> - handwired<br>#6-32 screw<br><b>02</b> - printed circuit<br>#6-32 screw<br><b>07</b> - extended pin<br>#6-32 screw<br><b>51*</b> - handwired<br>#8-32 screw<br><b>52*</b> - printed circuit<br>#8-32 screw | <b>1</b> - mount end<br><b>2</b> - barrier end | <b>02 to 22</b> barrier<br>end<br><b>02 to 20</b><br>on mount<br>end | <b>07</b> - steel SEMS<br>(standard)<br><b>09</b> - brass SEMS<br>nickel-plated<br><b>CA</b> - SEMS captive | <b>A7 to A9</b> - 0.250" QC<br><b>B7 to B9</b> - 0.187" QC<br><b>EB</b> exit back terminals<br><b>L1 to L6</b> marking options<br>(pg 25)<br><b>LT1 to LT6</b> marking options<br>(pg 25)<br><b>MP</b> mtg. plates (pg 20)<br><b>Covers</b> - (pg 26) |

\*Note: #8-32 screw is a special with #6-32 head.

## Terminal Styles Inches (Millimeters)

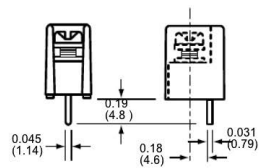


**01**

Handwired #6-32 screw

**51**

Handwired #8-32 screw

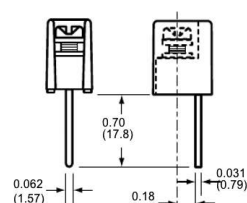


**02**

Printed Circuit #6-32 screw

**52**

Printed Circuit #8-32 screw



**07**

Extended Pin #6-32  
screw

## Screw Options

(Bulk ordering part numbers are in parentheses)



**07**

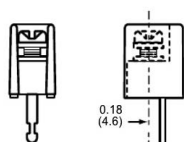
Steel SEMS  
Zinc-Plated  
(standard)  
(B001-7084-J)



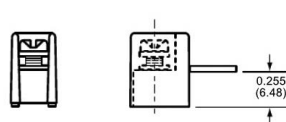
**09**

Brass SEMS  
Nickel-Plated  
(F524-J)

## CB3 Terminal Exit Options Inches (Millimeters)



**Exit Rear** (std.)



**EB**  
Exit Back

Hardware Options

Inches (Millimeters)  
(Bulk ordering part numbers are in parentheses)

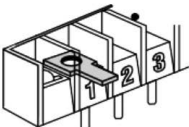


†OJ3  
(OJ3-J)

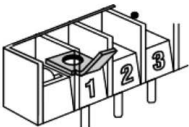


†OJ7  
(OJ7-J)

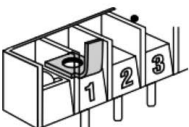
† Contact Eaton for desired configuration.



A7 & B7  
(2A7-J & 2B7-J)



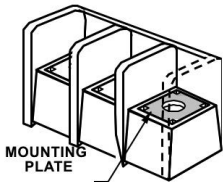
A8 & B8  
(2A8-J & 2B8-J)



A9 & B9  
(2A9-J & 2B9-J)

Mounting Options Inches (Millimeters)

Mounting Plates



**Options MP**  
**MP** Metal inserts with 0.150" dia. hole accept #6 screw.

## Contact Us

### Sales and Customer Service

#### Americas

Email: [elx.americas@eaton.com](mailto:elx.americas@eaton.com)

#### Europe, Middle East, Africa

Email: [elx.emea@eaton.com](mailto:elx.emea@eaton.com)

#### China

Email: [elx.cn@eaton.com](mailto:elx.cn@eaton.com)

#### Japan

Email: [elx.jp@eaton.com](mailto:elx.jp@eaton.com)

#### Korea

Email: [elx.kr@eaton.com](mailto:elx.kr@eaton.com)

#### South East Asia

Email: [elx.sea@eaton.com](mailto:elx.sea@eaton.com)

#### Taiwan

Email: [elx.tw@eaton.com](mailto:elx.tw@eaton.com)

### Global Technical Support

Magnetics: [InductorTech@eaton.com](mailto:InductorTech@eaton.com)

Circuit Protection: [FuseTech@eaton.com](mailto:FuseTech@eaton.com)

Supercapacitors: [CapacitorTech@eaton.com](mailto:CapacitorTech@eaton.com)

[www.eaton.com/terminalblocks](http://www.eaton.com/terminalblocks)

## Tools

### Eaton's Electronics Product Selection Tools



#### PARAMETRIC SEARCH

Drill down into the Eaton Electronics product database to find the right part for your application.



#### IC MATCHING

Find the Eaton Electronics parts called out on IC manufacturers' demo and evaluation boards.



#### CROSS REFERENCE

Find a cross to a competitor's product or to an alternate Eaton Electronics part number.



#### SUPERCAPACITOR CALCULATOR

Determine your calculated requirements and design capability.



#### TERMINAL BLOCK SELECTOR

Find the right terminal block for any application.



#### AUTOMOTIVE ELECTRONICS SOLUTIONS

Find electronics components for automotive solutions.

[tools.eatonelectronics.com](http://tools.eatonelectronics.com)



## 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

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9