

# Terminal Blocks - Single Row

## Series A2000, LP2000 & CB2000

### Single Row Terminal Blocks

#### SPECIFICATIONS

**Rating:** A2: 30A, 300V\*

LP2: 30A, 150V\*

CB2: 30A, 300V\*

**Center Spacing:** 0.375" or 3/8" (9.52mm)

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

**Screw Size:** #6-32 zinc-plated phillslot

**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:** 3400V (A2 & LP2); 4100V (CB2).

**Agency Information:** UL File E62622, CSA File 47235;

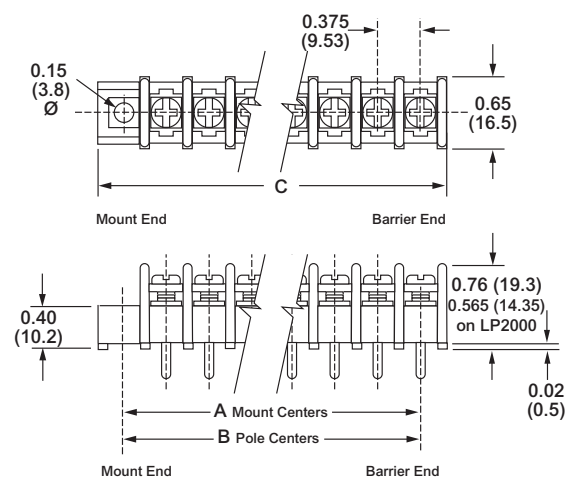
IEC Compliance; CE Certified

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

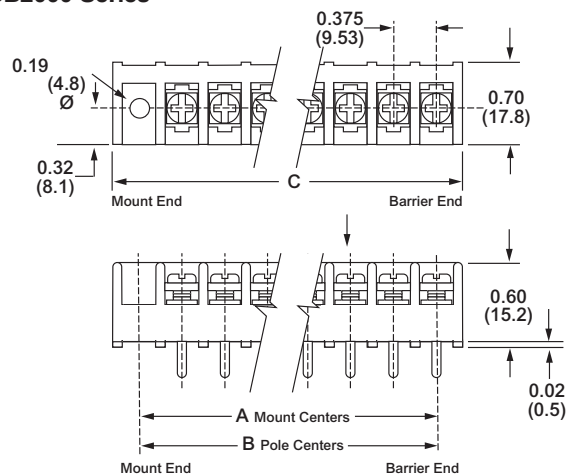


#### Dimensions - in (mm)

##### A2000 & LP2000 Series



##### CB2000 Series



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

| Poles | MOUNTING<br>ENDS<br>ONLY |             | BARRIER &<br>MOUNTING<br>ENDS<br>B<br>Pole Ctrs. | BARRIER<br>ENDS<br>ONLY<br>C<br>Length |
|-------|--------------------------|-------------|--------------------------------------------------|----------------------------------------|
|       | A<br>Mount Ctrs.         | C<br>Length |                                                  |                                        |
| 02    | 1.13                     | 1.56        | 0.38                                             | 0.81                                   |
| 03    | 1.50                     | 1.93        | 0.75                                             | 1.18                                   |
| 04    | 1.88                     | 2.30        | 1.13                                             | 1.56                                   |
| 05    | 2.25                     | 2.68        | 1.50                                             | 1.93                                   |
| 06    | 2.63                     | 3.06        | 1.88                                             | 2.31                                   |
| 07    | 3.00                     | 3.43        | 2.25                                             | 2.68                                   |
| 08    | 3.38                     | 3.81        | 2.63                                             | 3.06                                   |
| 09    | 3.75                     | 4.18        | 3.00                                             | 3.43                                   |
| 10    | 4.13                     | 4.56        | 3.38                                             | 3.81                                   |
| 11    | 4.50                     | 4.93        | 3.75                                             | 4.18                                   |
| 12    | 4.88                     | 5.31        | 4.13                                             | 4.56                                   |
| 13    | 5.25                     | 5.69        | 4.50                                             | 4.93                                   |
| 14    | 5.63                     | 6.06        | 4.88                                             | 5.31                                   |
| 15    | 6.00                     | 6.43        | 5.25                                             | 5.68                                   |
| 16    | 6.38                     | 6.81        | 5.63                                             | 6.06                                   |
| 17    | 6.75                     | 7.18        | 6.00                                             | 6.43                                   |
| 18    | 7.13                     | 7.56        | 6.38                                             | 6.81                                   |
| 19    | 7.50                     | 7.93        | 6.75                                             | 7.18                                   |
| 20    | 7.88                     | 8.31        | 7.13                                             | 7.56                                   |
| 21    | 8.25                     | 8.68        | 7.50                                             | 7.93                                   |
| 22    | 8.63                     | 9.06        | 7.88                                             | 8.31                                   |
| 23    | 9.00                     | 9.43        | 8.25                                             | 8.68                                   |
| 24    | 9.38                     | 9.81        | 8.63                                             | 9.06                                   |
| 25    | 9.75                     | 10.18       | 9.00                                             | 9.43                                   |
| 26    | 10.13                    | 10.56       | 9.38                                             | 9.81                                   |
| 27    | 10.50                    | 10.93       | 9.75                                             | 10.18                                  |
| 28    | 10.88                    | 11.31       | 10.13                                            | 10.55                                  |
| 29    | 11.25                    | 11.68       | 10.50                                            | 10.93                                  |
| 30    | 11.63                    | 12.05       | 10.88                                            | 11.31                                  |
| 31    | -                        | -           | 11.25                                            | 11.68                                  |
| 32    | -                        | -           | 11.63                                            | 12.05                                  |

## Series A2000 & LP2000 Single Row Terminal Blocks

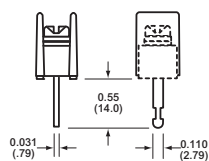
### Part Numbering System

| Series                                                           | Terminal Style                                                                                                                                                                                                                                                                                                                                             | Base/End                                                                                                                                                                                                                                                                                                                                                                                                                              | Poles                                                | Screw Options                                                                                                                                                                                                                                                                                                                                              | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> 2                                                       |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>LP</b> 2                                                      |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>A2</b> - standard barrier<br><b>LP2</b> - low profile 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>06</b> - handwired<br><b>07</b> - extended pin<br><b>08</b> - printed circuit<br><b>09</b> - 0.250" QC short<br><b>10</b> - 0.187" QC<br><b>14</b> - printed circuit<br><b>19</b> - 0.250" QC long | <b>0</b> - flat base/molded mount end<br><b>1</b> - flat base/mnt. end<br><b>2</b> - flat base/barrier end<br><b>3</b> - insulator base/mnt. end<br><b>4</b> - insulator base/barrier end<br><b>5</b> - closed base/mount end<br><b>6</b> - closed base/molded mount end<br><b>9</b> - insulator base/molded mount end<br><br>Base/End Note: 0, 6, 9 styles not available with covers. 5 & 6 Styles only available with 03 terminals. | <b>02 to 32</b><br><b>02 to 30</b> on mount end base | Blank - std. screw<br><b>00</b> - screws shipped bulk<br><b>03</b> - stainless steel<br><b>04</b> - brass nickel-plated<br><b>07</b> - steel SEMS (not available with hardware options)<br><b>09</b> - brass SEMS nickel-plated (not available with hardware options)<br><b>CA</b> - captive screw<br><b>WR</b> - wire ready (not available on LP2 series) | <b>AB</b> - angle mnt. options (pg 9)<br><b>A1 to A9</b> - 0.250" QC<br><b>B1 to B9</b> - 0.187" QC<br><b>DR</b> - drilled right angle (pg 9)<br><b>†JA, JB &amp; JC</b> - barrier jumpers<br><b>L1 to L6</b> marking options (pg 22)<br><b>MP, MP8 &amp; MT</b> mounting plates (pg 9)<br><b>†OJ2 &amp; OJ4</b> - over barrier jumpers (not available w/covers)<br><b>RC</b> - retaining clips (pg 9)<br><b>R30 to R77</b> - right angle bends (pg 9)<br><b>SO</b> - stand off insulators (pg 9)<br><b>S1</b> - solder lug/flat<br><br><b>Covers</b> - (pg 23) |

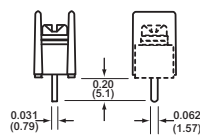
†Contact factory for configuration..

### Terminal Styles

Inches (Millimeters)



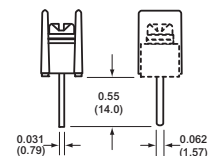
**01**  
Handwired



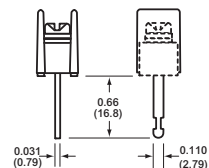
**02**  
Printed Circuit



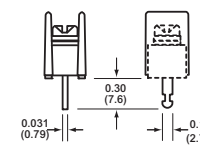
**03**  
Non Feed-Thru



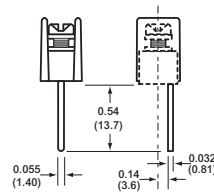
**04**  
Wire Wrap Tail



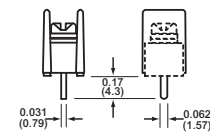
**05**  
Extended Handwired



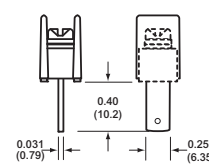
**06**  
Handwired



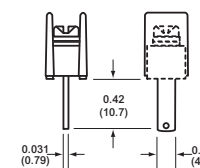
**07**  
Extended Pin



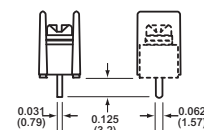
**08**  
Printed Circuit



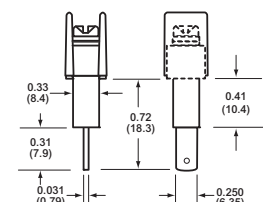
**09**  
0.250" QC short



**10**  
0.187" QC



**14**  
Printed Circuit



**19**  
√0.250" QC long

# Terminal Blocks - Single Row

## Series A2000 & LP2000

### Single Row Terminal Blocks *Continued*

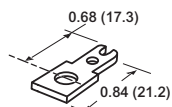
#### Screw Options

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| <b>Standard</b><br>zinc-plated Steel                                              | <b>03</b><br>Stainless Steel                                                      | <b>04</b><br>Brass<br>Nickel-Plated                                               | <b>07</b><br>Steel SEMS                                                           | <b>09</b><br>Brass SEMS<br>Nickel-Plated                                            | <b>WR</b><br>Wire Ready                                                             |

#### Hardware Options (Bulk ordering part numbers are in parentheses.)

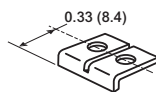
Inches (Millimeters)

##### Solder Lugs

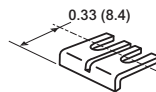


**S1**  
(2S1-J)

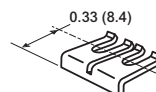
##### Jumpers



**†JA**  
(JA2-XX-J)



**†JB**  
(JB2-XX-J)



**†JC**  
(JC2-XX-J)

†Contact factory for configuration.



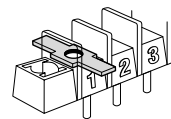
**†OJ2**  
(OJ2-J)



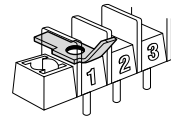
**†OJ4**  
(OJ4-J)

##### Quick Connects

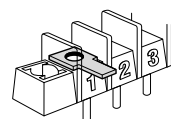
Blade Width A = 0.250" Blade Width B = 0.187"



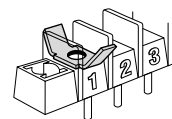
**A1 & B1**  
(2A1-J & 2B1-J)



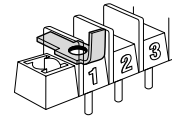
**A4 & B4**  
(2A4-J & 2B4-J)



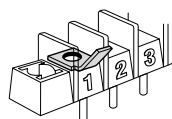
**A7 & B7**  
(2A7-J & 2B7-J)



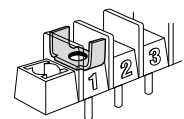
**A2 & B2**  
(2A2-J & 2B2-J)



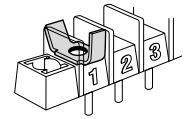
**A5 & B5**  
(2A5-J & 2B5-J)



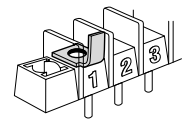
**A8 & B8**  
(2A8-J & 2B8-J)



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



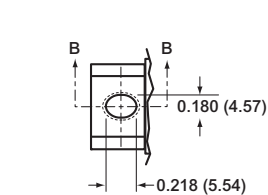
**A6 & B6**  
(2A6-J & 2B6-J)



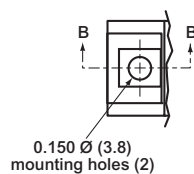
**A9 & B9**  
(2A9-J & 2B9-J)

#### Base/End Options

Inches (Millimeters)



**0, 6 & 9**  
**Molded Mount End**



**1, 3 & 5**  
**Mount End**

## Series A2000 & LP2000

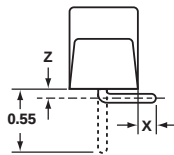
### Single Row Terminal Blocks *Continued*

#### Mounting Options

##### Right Angle Bends (A2, LP2 only)

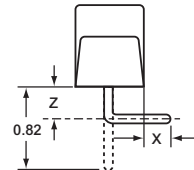
Right angle terminals are offered on the A2000 & LP2000 Series. Configurations are defined in these dimensions: X = pin extension beyond the block base; Z = length from block base to centerline of the terminal tip. Standard bends consist of the X and Z dimensions shown in the chart. Specify by adding the selected Bend Option Code to the terminal part number.

##### 04 Terminal Bend Configurations



| Bend Option Code | X (minimum) | Z    | Available w/insulator base |
|------------------|-------------|------|----------------------------|
| R30              | 0.04        | 0.28 | No                         |
| R35              | 0.01        | 0.23 | No                         |
| R36              | 0.02        | 0.22 | No                         |
| R39              | 0.05        | 0.19 | No                         |
| R42              | 0.08        | 0.16 | No                         |
| R46              | 0.12        | 0.12 | No                         |
| R48              | 0.14        | 0.10 | No                         |
| R50              | 0.16        | 0.08 | No                         |

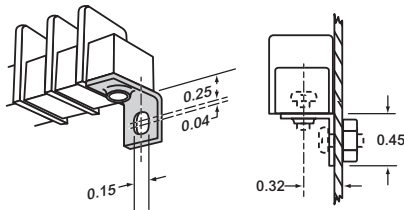
##### 07 Terminal Bend Configurations



| Bend Option Code | X (minimum) | Z    | Available w/insulator base |
|------------------|-------------|------|----------------------------|
| R30              | 0.04        | 0.55 | Yes                        |
| R35              | 0.01        | 0.50 | Yes                        |
| R36              | 0.02        | 0.49 | Yes                        |
| R42              | 0.08        | 0.43 | Yes                        |
| R46              | 0.12        | 0.39 | Yes                        |
| R50              | 0.16        | 0.35 | No                         |
| R53              | 0.19        | 0.32 | No                         |
| R66              | 0.32        | 0.19 | No                         |
| R69              | 0.35        | 0.16 | No                         |
| R75              | 0.41        | 0.10 | No                         |
| R77              | 0.43        | 0.08 | No                         |

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

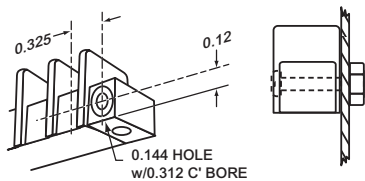
##### Angle Brackets (A2, LP2 only)



##### Option AB

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

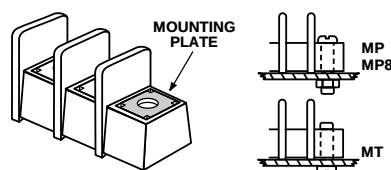
##### Drilled Right Angle (A2, LP2 only)



##### Option DR

Counterbored holes across mount ends of block enable fastening with two screws at right angles to normal mount position.

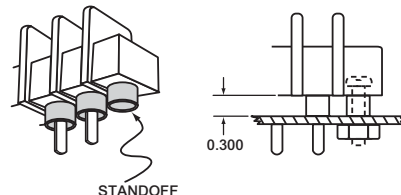
##### Mounting Plates



##### Options MP, MP8 & MT

**MP** Metal inserts with 0.150" dia. hole accept #6 screw. **MP8** Metal inserts with 0.187" dia. hole accept #8-32 screw. **MT** Metal inserts with tapped hole accept #6-32 screw.

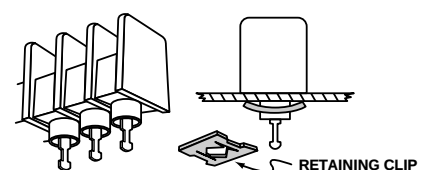
##### Standoffs



##### Option SO

Standoff mounts are tubes molded to the mounting positions. Available with insulator bases only.

##### Retaining Clip



##### Option 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**.

# Terminal Blocks - Single Row

## Series CB2000

### Single Row Terminal Blocks

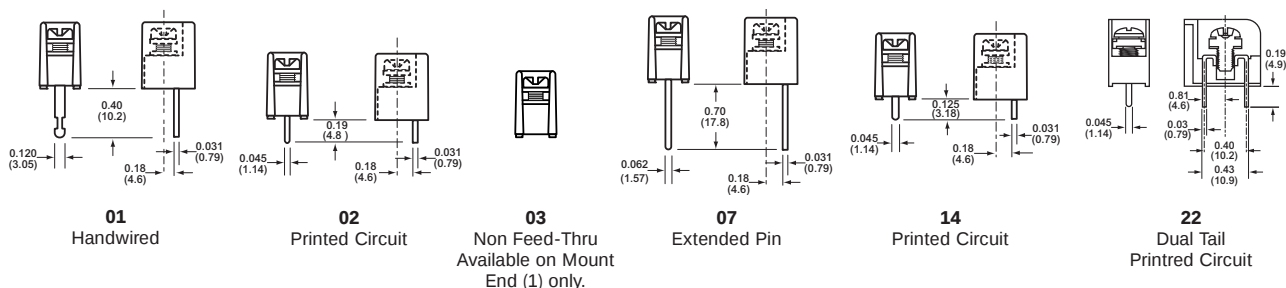
#### Part Numbering System

| Series                   | Terminal Style                                                                                                                                                                        | Base/End                                       | Poles                                                | Screws                                                                                                                                                                                               | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CB2</b>               |                                                                                                                                                                                       |                                                |                                                      |                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>CB2</b> - closed back | <b>01</b> - handwired<br><b>02</b> - printed circuit<br><b>03</b> - non feed-thru<br><b>07</b> - extended pin<br><b>14</b> - printed circuit<br><b>22</b> - dual tail printed circuit | <b>1</b> - mount end<br><b>2</b> - barrier end | <b>02 to 32</b><br><b>02 to 30</b> on mount end base | <b>03</b> - stainless steel<br><b>04</b> - brass nickel-plated<br><b>07</b> - steel SEMS standard<br><b>09</b> - brass SEMS nickel-plated<br><b>CA</b> - captive screw<br><b>07CA</b> - SEMS captive | <b>*AB</b> - angle mounting brackets (pg 11)<br><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>EF</b> - exit front terminals<br><b>†JA, JB &amp; JC</b> - barrier jumpers<br><b>L1 to L6</b> marking options (pg 22)<br><b>LT1 to LT6</b> marking options (pg 22)<br><b>†OJ2 &amp; OJ4</b> - over barrier jumpers<br><b>MP, MP8, MT &amp; MT8</b> mtg. plates (pg 11)<br><b>S1</b> - solder lug/flat |

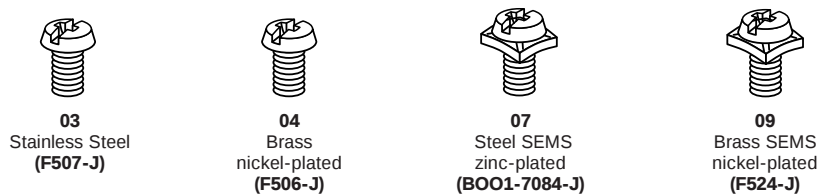
\*Only available on 3-poles and up.  
 †Contact factory for configuration.

#### Terminal Styles

Inches (Millimeters)



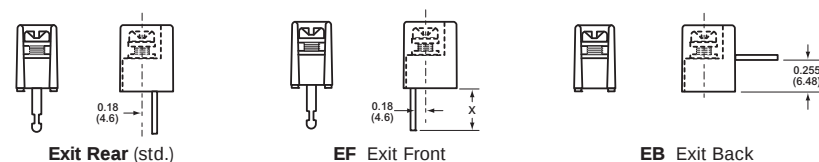
#### Screw Options (Bulk ordering part numbers are in parentheses.)



\* NOTE: Wire ready screws standard on all terminal styles.

#### CB2 Terminal Exit Options

Inches (Millimeters)



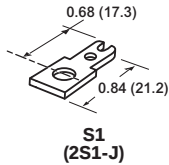
## Series CB2000

### Single Row Terminal Blocks

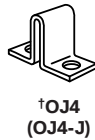
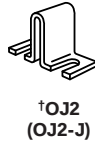
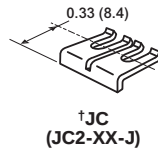
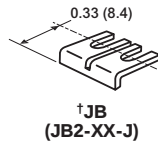
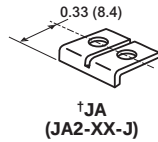
#### Hardware Options (Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

##### Solder Lugs

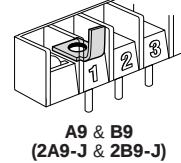
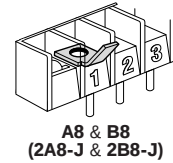
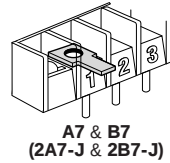


##### Jumpers



##### Quick Connects

Blade Width A = 0.250". Blade Width B = 0.187".

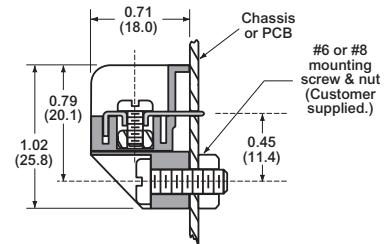
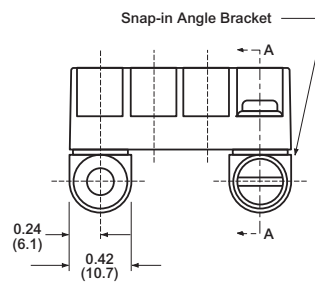
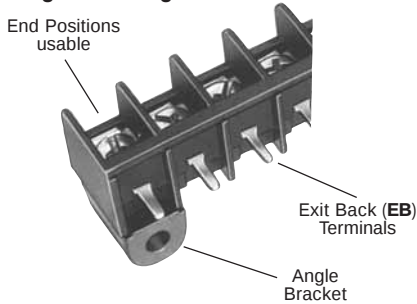


†Contact factory for configuration.

#### Mounting Options

Inches (Millimeters)

##### Right Angle Mounting Bracket

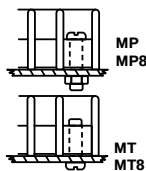
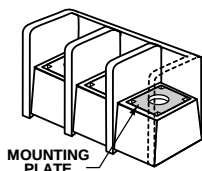


##### Mounts blocks on PC boards at a right angle.

- Protects solder joints.
- Recommended for all EB (Exit Back) PCB terminal blocks.
- Bracket snaps securely on block (no hardware required).
- Minimum strip length (end positions are usable).
- Mount with #6-32 or #8-32 screws (not supplied).

##### Option AB

##### Mounting Plates



##### Options MP, MP8, MT & MT8

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

**MP8** Metal inserts with 0.187" dia. hole accept #8-32 screw.

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

**MT8** Metal inserts with tapped hole accept #8-32 screw.

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