

## Series A3000, LP3000 & CB3000

### Single Row Terminal Blocks

#### SPECIFICATIONS

**Rating:** A3: 30A, 600V\* #12-22 AWG

LP3: 30A, 150V #12-22 AWG

CB3: 30A, 600V #12-22 AWG

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

**Center Spacing:** .437" or 7/16" (11.10 mm)

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

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

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

**Distance Between Barriers:** .32" (8.1 mm)

**Recommended PCB Hole Diameter:** .076" (1.93 mm)

**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/CSA; IEC Compliance, CE Certified

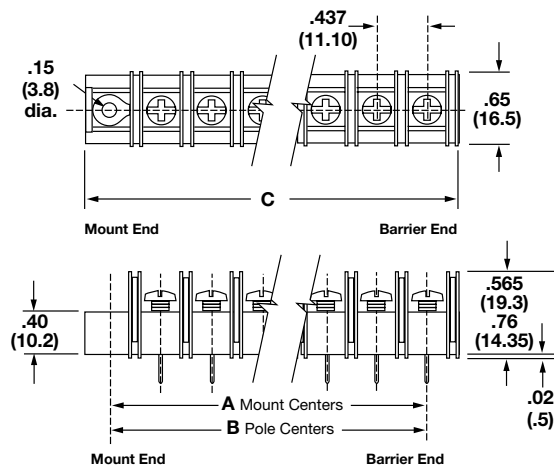
\*30A Rating achieved with a #10 copper wire crimped to a ring terminal;  
20 Rating without ring terminal.

A31940707WR

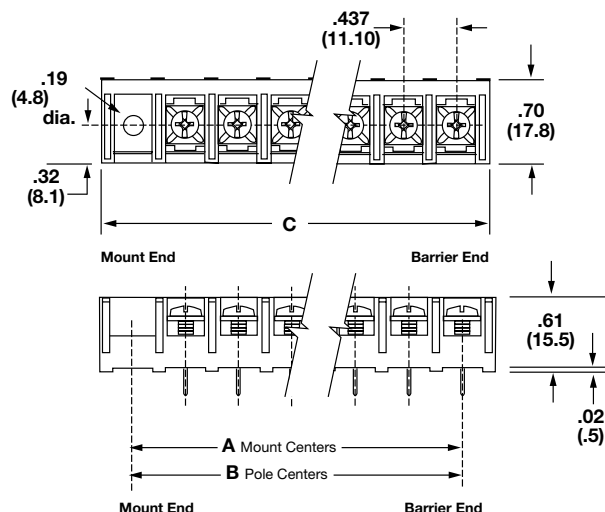
LP301105

CB31420807

#### A3000 & LP3000 Series



#### CB3000 Series



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

| Poles | MOUNTING ENDS ONLY |          | BARRIER & MOUNTING ENDS<br>B Pole Ctrs. | BARRIER ENDS ONLY<br>C Length |
|-------|--------------------|----------|-----------------------------------------|-------------------------------|
|       | A Mount Ctrs.      | C Length |                                         |                               |
| 02    | 1.31               | 1.73     | .43                                     | .98                           |
| 03    | 1.75               | 2.17     | .87                                     | 1.43                          |
| 04    | 2.18               | 2.61     | 1.31                                    | 1.87                          |
| 05    | 2.62               | 3.05     | 1.75                                    | 2.31                          |
| 06    | 3.06               | 3.48     | 2.18                                    | 2.75                          |
| 07    | 3.50               | 3.92     | 2.62                                    | 3.18                          |
| 08    | 3.93               | 4.36     | 3.06                                    | 3.62                          |
| 09    | 4.37               | 4.80     | 3.50                                    | 4.06                          |
| 10    | 4.81               | 5.23     | 3.93                                    | 4.50                          |
| 11    | 5.25               | 5.67     | 4.37                                    | 4.93                          |
| 12    | 5.68               | 6.11     | 4.81                                    | 5.37                          |
| 13    | 6.12               | 6.55     | 5.25                                    | 5.81                          |
| 14    | 6.56               | 6.98     | 5.68                                    | 6.25                          |
| 15    | 7.00               | 7.42     | 6.12                                    | 6.68                          |
| 16    | 7.43               | 7.86     | 6.56                                    | 7.12                          |
| 17    | 7.87               | 8.30     | 7.00                                    | 7.56                          |
| 18    | 8.31               | 8.73     | 7.43                                    | 8.00                          |
| 19    | 8.75               | 9.17     | 7.87                                    | 8.43                          |
| 20    | 9.18               | 9.60     | 8.31                                    | 8.87                          |
| 21    | 9.62               | 10.05    | 8.50                                    | 9.31                          |
| 22    | 10.06              | 10.48    | 9.18                                    | 9.75                          |
| 23    | 10.50              | 10.92    | 9.62                                    | 10.18                         |
| 24    | 10.93              | 11.36    | 10.06                                   | 10.62                         |
| 25    | 11.37              | 11.80    | 10.50                                   | 11.06                         |
| 26    | 11.81              | 12.23    | 10.93                                   | 11.50                         |
| 27    |                    |          | 11.37                                   | 11.93                         |
| 28    |                    |          | 11.81                                   | 12.37                         |

## Series A3000 & LP3000

### Single Row Terminal Blocks

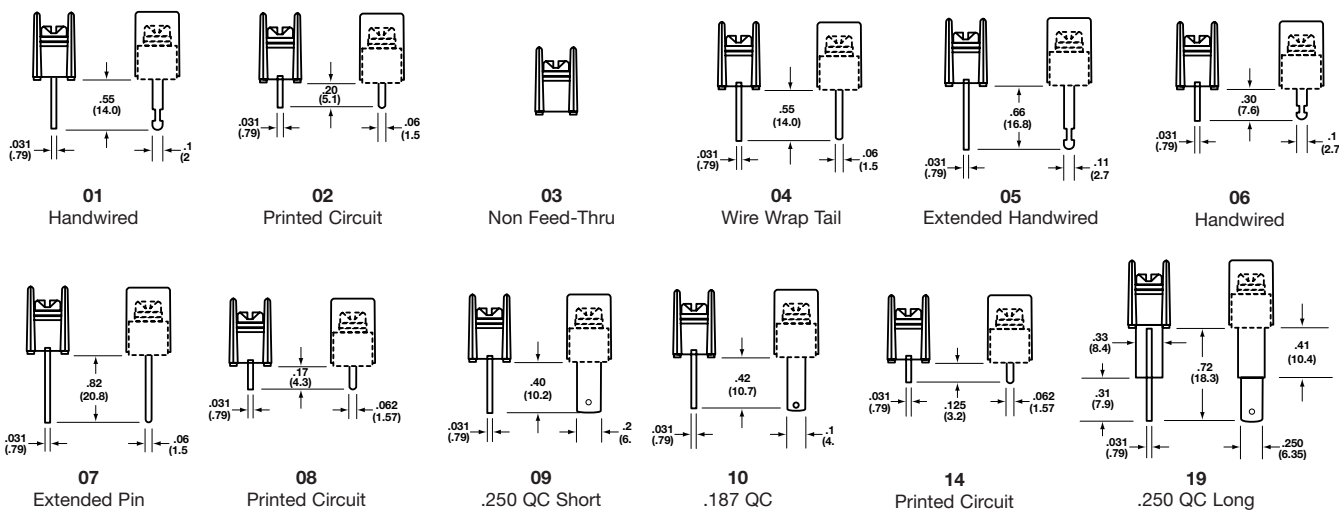
#### Part Numbering System

| Series                                                           | Terminal Style                                                                                                                                                                                                                                                                                                                                       | Base/End<br>(Views pg. 15)                                                                                                                                                           | Poles                                                | Screw Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A3</b>                                                        |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                      |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>LP3</b>                                                       |                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                      |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>A3</b> - standard barrier<br><b>LP3</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> - .250 QC short<br><b>10</b> - .187 QC<br><b>14</b> - printed circuit<br><b>19</b> - .250 QC long | <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 | <b>02 to 28</b><br><b>02 to 26</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 zinc plated (not available with hardware options)<br><b>09</b> - brass SEMS nickel plated (not available with hardware options)<br><b>03CA</b> - stainless steel captive<br><b>04CA</b> - brass captive<br><b>07CA</b> - SEMS captive<br><b>09CA</b> - brass SEMS captive<br><b>07WR</b> - steel SEMS wire ready (A3 only) | <b>AB</b> - angle mnt. options (pg 15)<br><b>A1 to A9</b> - .250" QC<br><b>B1 to B9</b> - .187" QC<br><b>DR</b> - drilled right angle (pg 15)<br><b>J201</b> - flat slip-on jumper<br><b>L1 to L6</b> marking options (pg 22)<br><b>MP, MP8 &amp; MT</b> mounting plates (pg 15)<br><b>OJ3, OJ5 &amp; OJ7</b> - over barrier jumpers<br><b>RC</b> - retaining clips (pg 15)<br><b>R30 to R77</b> - right angle bends (pg 15)<br><b>SO</b> - stand off insulators (pg 15)<br><b>S1</b> - solder lug/flat<br><b>Covers</b> - (pg 23) |

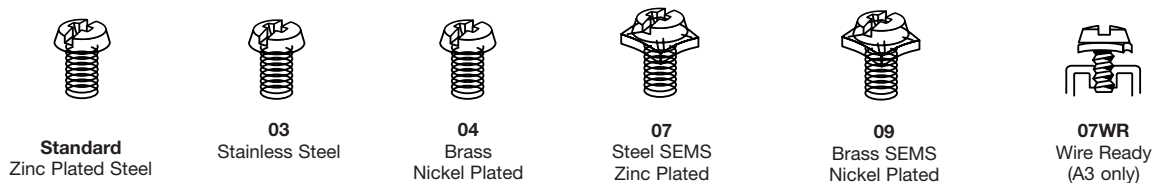
Base/End Note: 5 Style only available with 03 terminals.

#### Terminal Styles

Inches (Millimeters)



#### Screw Options



## Series A3000 & LP3000

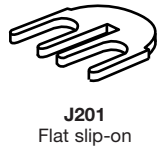
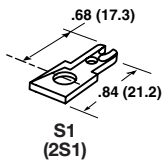
### Single Row Terminal Blocks *Continued*

#### Hardware Options

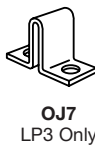
(Bulk ordering part numbers are in parentheses.)

Inches (Millimeters)

##### Solder Lugs

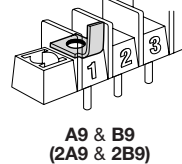
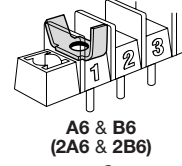
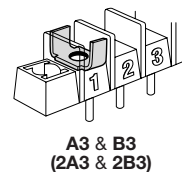
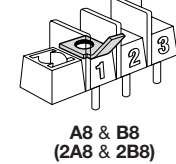
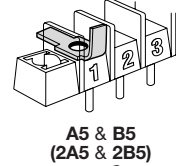
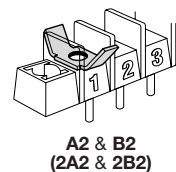
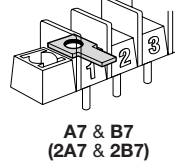
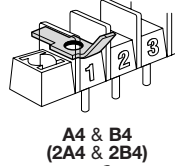
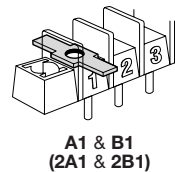


##### Jumpers

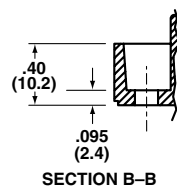
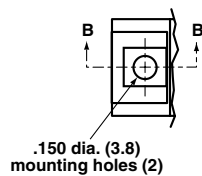


##### Quick Connects

Blade Width A = .250" Blade Width B = .187"



#### Base/End Options



1, 3 & 5 Mount End

## Series A3000 & LP3000

### Single Row Terminal Blocks *Continued*

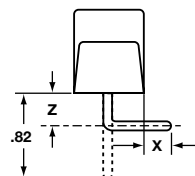
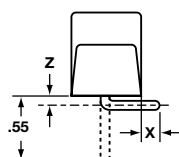
## Mounting Options

### Right Angle Bends (A3, LP3 only)

Right angle terminals are offered on the A3000 & LP3000 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 no.

### 07 Terminal Bend Configurations

### 04 Terminal Bend Configurations

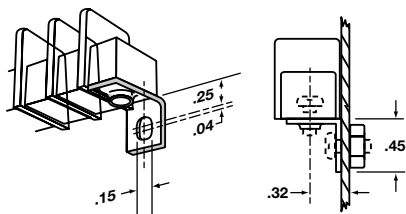


| Bend Option Code | X (minimum) | Z   | Available w/insulator base |
|------------------|-------------|-----|----------------------------|
| R30              | -.04        | .28 | No                         |
| R35              | .01         | .23 | No                         |
| R36              | .02         | .22 | No                         |
| R39              | .05         | .19 | No                         |
| R42              | .08         | .16 | No                         |
| R46              | .12         | .12 | No                         |
| R48              | .14         | .10 | No                         |
| R50              | .16         | .08 | No                         |

| Bend Option Code | X (minimum) | Z   | Available w/insulator base |
|------------------|-------------|-----|----------------------------|
| R30              | -.04        | .55 | Yes                        |
| R35              | .01         | .50 | Yes                        |
| R36              | .02         | .49 | Yes                        |
| R50              | .16         | .35 | No                         |
| R53              | .19         | .32 | No                         |
| R66              | .32         | .19 | No                         |
| R69              | .35         | .16 | No                         |
| R75              | .41         | .10 | No                         |
| R77              | .43         | .08 | No                         |

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

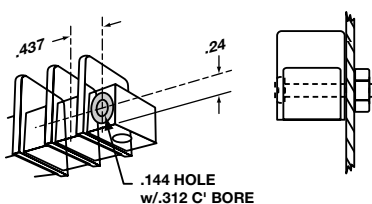
### Angle Brackets (A3, LP3 only)



#### Option AB

Angle brackets enable block to be fastened at right angles to normal mount position. Bulk part no. **2AB**.

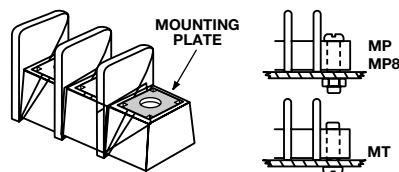
### Drilled Right Angle (A3, LP3 only)



#### Option DR

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

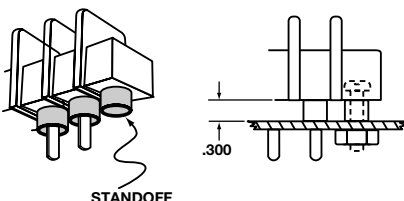
### Mounting Plates



#### Options MP, MP8 & MT

**MP** Metal inserts with .150" dia. hole accept #6 screw. **MP8** Metal inserts with .187" dia. hole accept #8-32 screw. **MT** Metal inserts with tapped hole accept #6-32 screw.

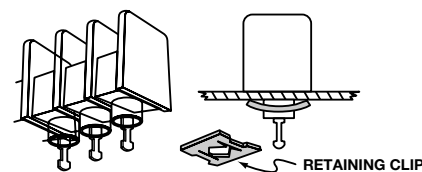
### Standoffs



#### 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 .125" thick. Two clips for every five positions. Supplied unassembled. Bulk Part No. **H541**.

## Series CB3000

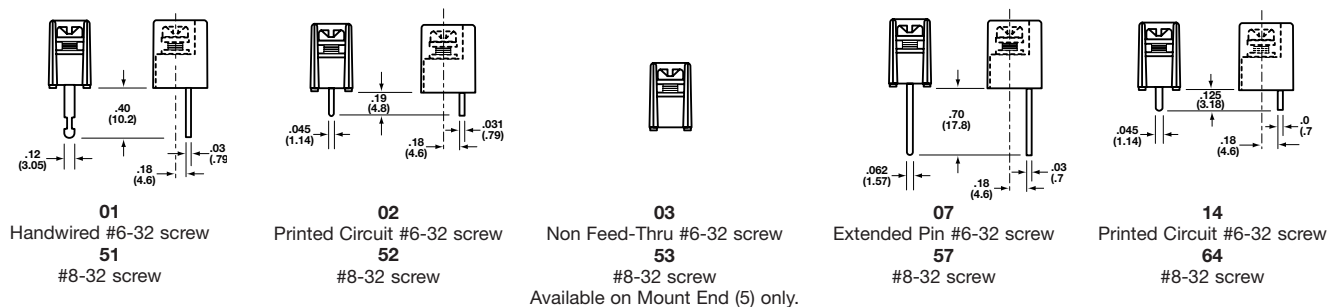
### Single Row Terminal Blocks

#### Part Numbering System

| Series                                           | Terminal Style                                                                                                                                                                                                                                                                                                                                                                              | Base/End                                                                               | Poles                                                   | Screws                                                                                          | Options                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C</b> <b>B</b> <b>3</b>                       |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                        |                                                         |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>CB3</b> - closed back                         | <b>01</b> - handwired #6-32 screw<br><b>02</b> - printed circuit #6-32 screw<br><b>03</b> - non feed-thru #6-32 screw<br><b>07</b> - extended pin #6-32 screw<br><b>14</b> - printed circuit #6-32 screw<br><b>51</b> - handwired #8-32*<br><b>52</b> - printed circuit #8-32*<br><b>53</b> - non feed-thru #8-32*<br><b>57</b> - extended pin #8-32*<br><b>64</b> - printed circuit #8-32* | <b>1</b> - mount end<br><b>2</b> - barrier end<br><b>5</b> - closed base/<br>mount end | <b>02 to 28</b><br><b>02 to 26</b> on mount<br>end base | <b>07</b> - steel SEMS<br><b>09</b> - brass SEMS<br>nickel plated<br><b>07CA</b> - SEMS captive | <b>AB</b> - angle mounting brackets (pg 17)<br><b>A7 to A9</b> - .250" QC<br><b>B7 to B9</b> - .187" QC<br><b>EB</b> - exit back terminals<br><b>L1 to L6</b> marking options (pg 22)<br><b>LT1 to LT6</b> marking options (pg 22)<br><b>OJ3 &amp; OJ7</b> - over barrier jumpers<br><b>MP, MP8, MT &amp; MT8</b> mtg. plates (pg 17)<br><b>S1</b> - solder lug/flat<br><b>Covers</b> - (pg 23) |
| *Note: #8-32 screw is a special with #6-32 head. |                                                                                                                                                                                                                                                                                                                                                                                             | Base/End Note: 5 Style only available with 03 terminals.                               |                                                         |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                 |

#### Terminal Styles

Inches (Millimeters)



#### Screw Options



**07**  
Steel SEMS  
Zinc Plated

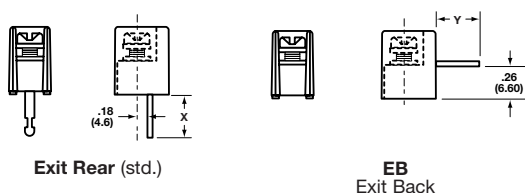


**09**  
Brass SEMS  
Nickel Plated

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

#### CB3 Terminal Exit Options

Inches (Millimeters)



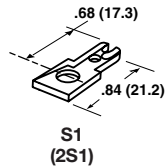
## Series CB3000

### Single Row Terminal Blocks

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

Inches (Millimeters)

### Solder Lugs

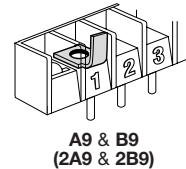
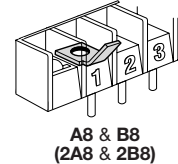
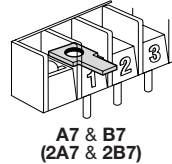


### Jumpers



### Quick Connects

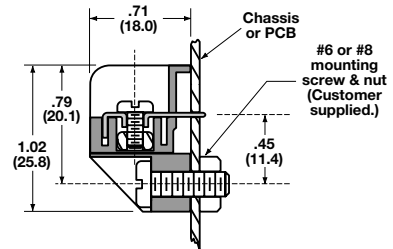
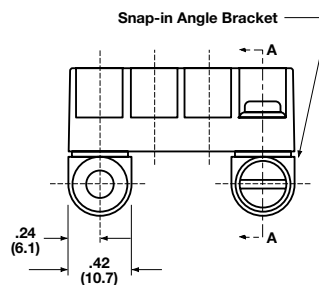
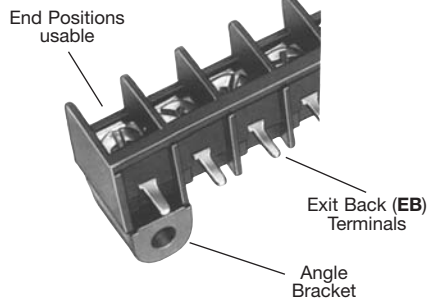
Blade Width A = .250". Blade Width B = .187".



## Mounting Options

Inches (Millimeters)

### Right Angle Mounting Bracket

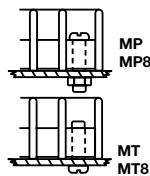
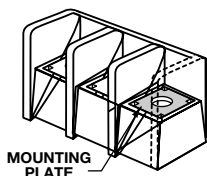


### Option AB

### 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).

### Mounting Plates



### Options MP, MP8, MT & MT8

MP Metal inserts with .150" dia. hole accept #6 screw.

MP8 Metal inserts with .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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