

## Series A2000, LP2000 &amp; 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 &amp; LP2); 4100V (CB2).

Agency Information: UL File E62622, CSA File 47235;

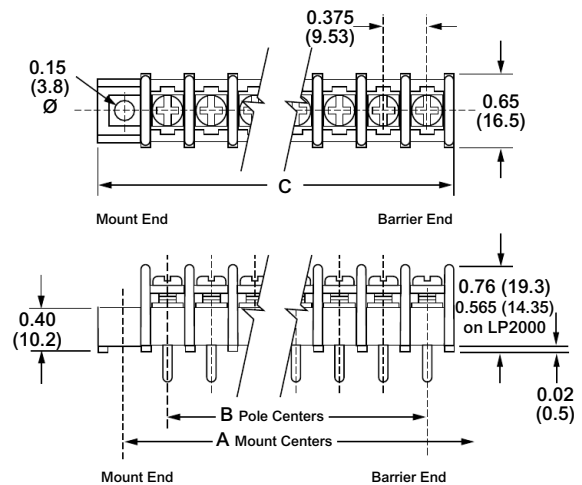
IEC Compliance; CE Certified

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

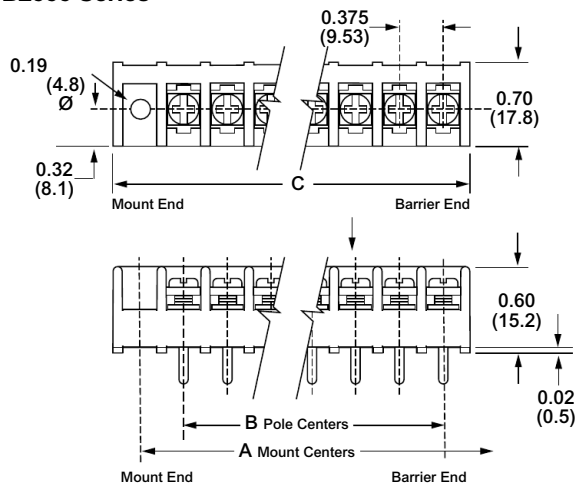


## Dimensions - in (mm)

## A2000 &amp; LP2000 Series



## CB2000 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    | 1.13               | 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>A2</b>                                                        |                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |                                                      |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>LP2</b>                                                       |                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                 |                                                      |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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>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>1</b> - std. base/mnt. end<br><b>2</b> - std. 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 | <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 11)<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 11)<br><b>L1 to L6</b> marking options (pg 25)<br><b>MP*</b> mounting plates (pg 11)<br><b>RC*</b> - retaining clips (pg 11)<br><b>R30 to R77</b> - right angle bends (pg 11)<br><b>S1*</b> - solder lug/flat<br><b>JA***, JB*** &amp; JC***</b> - barrier jumpers<br><b>OJ2*** &amp; OJ4***</b> - over barrier jumpers (not available w/covers)<br><b>Covers</b> - (pg 26) |

Base/End Note: 6 style not available with covers. 5 & 6 Styles only available with 03 terminals.

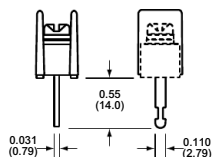
\*A2 only.

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

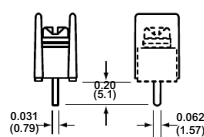
\*\*\*Contact factory for configuration.

#### Terminal Styles

Inches (Millimeters)



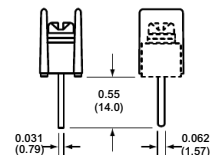
**01**  
Handwired



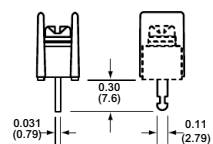
**02**  
Printed Circuit



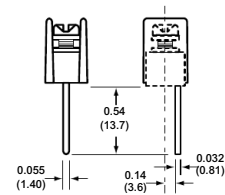
**03**  
Non Feed-Thru



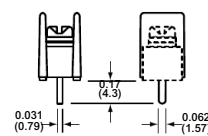
**04**  
Wire Wrap Tail



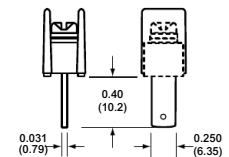
**06**  
Handwired



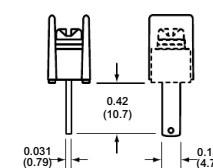
**07**  
Extended Pin



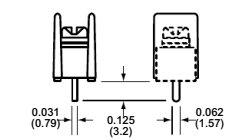
**08**  
Printed Circuit



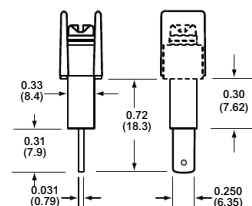
**09**  
0.250" QC short



**10**  
0.187" QC



**14**  
Printed Circuit



**19**  
0.250" QC long

## Series A2000 &amp; LP2000

Single Row Terminal Blocks *Continued*

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



**Standard**  
Zinc-plated Steel  
(F505-J)



**03**  
Stainless Steel  
(F507-J)



**04**  
Brass  
Nickel-Plated  
(F506-J)



**07**  
Steel SEMS  
(F523-J)



**09**  
Brass SEMS  
Nickel-Plated  
(F524-J)

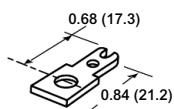


**WR**  
Wire Ready

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

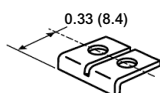
Inches (Millimeters)

## Solder Lugs



**S1**  
(2S1-J)

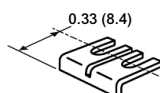
## Jumpers



**†JA**  
(JA2-02-J)



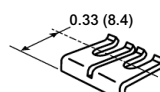
**†OJ2**  
(OJ2-J)



**†JB**  
(JB2-02-J)



**†OJ4**  
(OJ4-J)

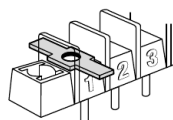


**†JC**  
(JC2-02-J)

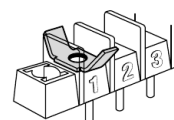
†Contact factory for configuration.

## Quick Connects

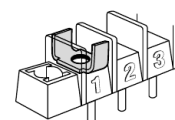
Blade Width A = 0.250" Blade Width B = 0.187"



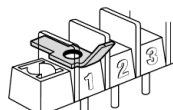
**A1 & B1**  
(2A1-J & 2B1-J)



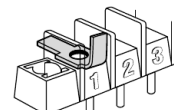
**A2 & B2**  
(2A2-J & 2B2-J)



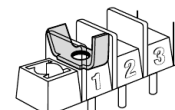
**A3 & B3**  
(2A3-J & 2B3-J)



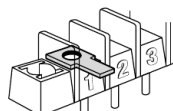
**A4 & B4**  
(2A4-J & 2B4-J)



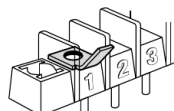
**A5 & B5**  
(2A5-J & 2B5-J)



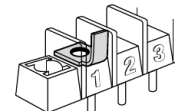
**A6 & B6**  
(2A6-J & 2B6-J)



**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**



**4 - Insulator base/barrier end**

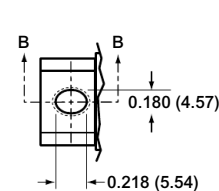


**5 - Closed base/mount end**



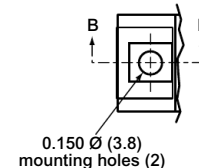
**6 - Closed base/molded mount end**

## Mount End Details



**SECTION A-A**

**6**  
Molded Mount End



**SECTION B-B**

**1, 3 & 5**  
Mount End

## Series A2000 &amp; LP2000

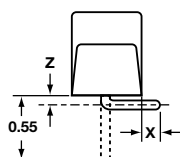
Single Row Terminal Blocks *Continued*

## Mounting Options

## Right Angle Bends (A2, LP2 only)

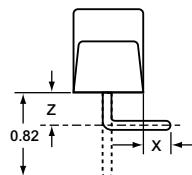
Right angle terminals are offered on the A2000 & LP2000 Series. Configurations are defined in these dimensions: X = pin extension beyond the block base; Z = length from block base to centerline of the terminal tip. Standard bends consist of the X and Z dimensions shown in the chart. Specify by adding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

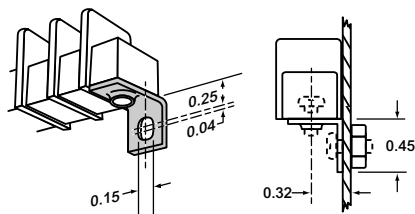
## 07 Terminal Bend Configurations



| 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.

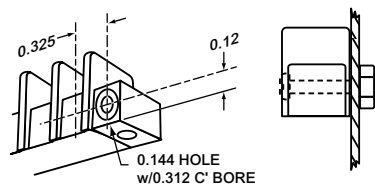
## Angle Brackets (A2, LP2 only)



## Option AB

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

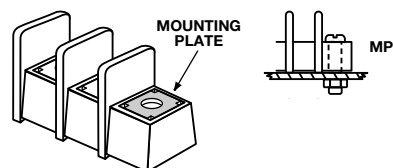
## Drilled Right Angle (A2, LP2 only)



## Option DR

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

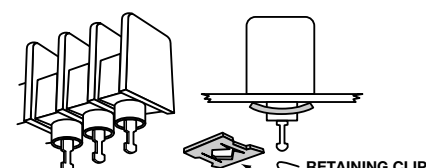
## Mounting Plates



## Option

**MP** Metal inserts with 0.150" dia. hole accept #6 screw. Bulk part number **2MP-J**.

## 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**.

## Series CB2000

## Single Row Terminal Blocks

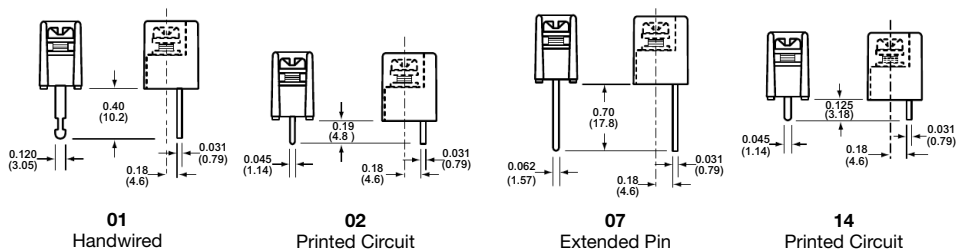
## Part Numbering System

| 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>07</b> - extended pin<br><b>14</b> - 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>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 13)<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>L1 to L6</b> marking options (pg 25)<br><b>LT1 to LT6</b> marking options (pg 25)<br><b>MP</b> mtg. plates (pg 13)<br><b>S1</b> - solder lug/flat<br><b>JA***, JB*** &amp; JC***</b> - barrier jumpers<br><b>OJ2*** &amp; OJ4***</b> - over barrier jumpers<br><b>Covers</b> - (pg 26) |

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

## Terminal Styles

Inches (Millimeters)



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



**07**  
 Steel SEMS  
 zinc-plated  
 (B001-7084-J)

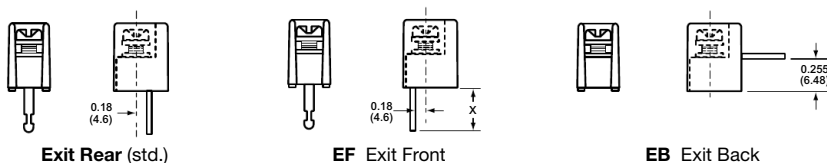


**09**  
 Brass SEMS  
 nickel-plated  
 (F524-J)

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

## CB2 Terminal Exit Options

Inches (Millimeters)

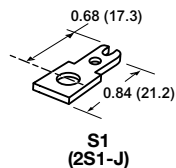
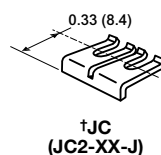
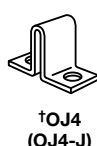
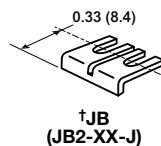
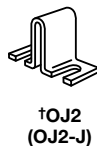
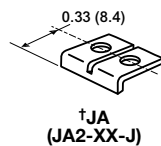


**Series CB2000**

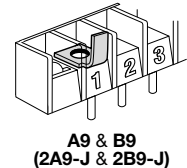
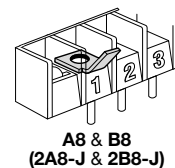
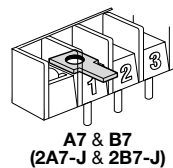
## Single Row Terminal Blocks

**Hardware Options** (Bulk ordering part numbers are in parentheses)

Inches (Millimeters)

**Solder Lugs****Jumpers****Quick Connects**

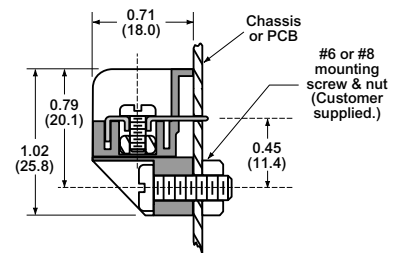
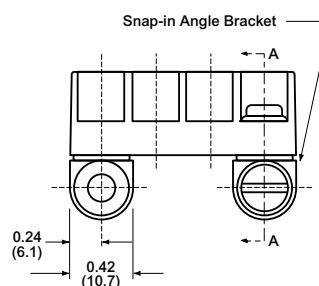
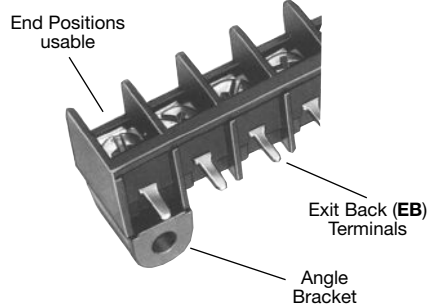
Blade Width A = 0.250". Blade Width B = 0.187".



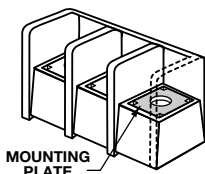
†Contact factory for configuration.

**Mounting Options**

Inches (Millimeters)

**Right Angle Mounting Bracket****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****Option MP**

**MP** Metal inserts with 0.150" dia. hole accept #6 screw.  
Bulk part number **2MP-J**.