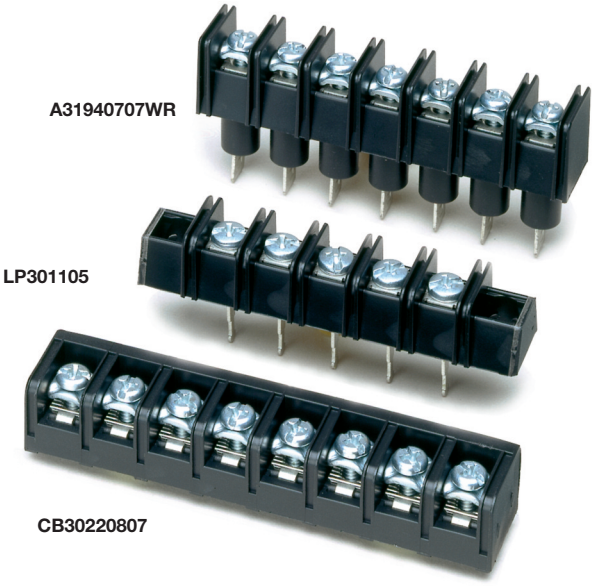
Series A3000, LP3000 & CB3000

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: 0.437" or 7/16" (11.10mm)
Screw Size: #6-32 zinc-plated philslot screws.
Torque Rating: 9 lb-in.
Base: Standoffs standard for easy flux washing.
Distance Between Barriers: 0.32" (8.1mm)
Recommended PCB Hole Diameter: 0.076" (1.93mm)
Operating Temperature: 105°C (221°F) max., -40°C (-40°F) min.
Molded Material: Black, UL Rated 94V0 Thermoplastic
Breakdown Voltage: 3500V (A3 & LP3); 8200V (CB3)
Agency Information: UL File E62622, CSA 47235; IEC Compliance, CE Certified

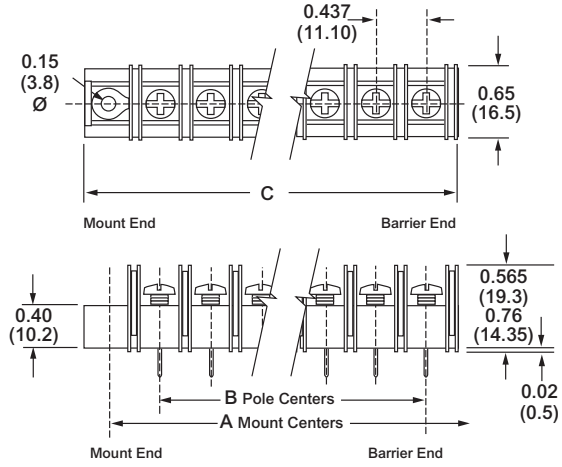
*30A Rating achieved with a #10 copper wire crimped to a ring terminal; 20 Rating without ring terminal.

Poles	MOUNTING ENDS ONLY A Mount Ctrs.	MOUNTING ENDS ONLY C Length	BARRIER & MOUNTING ENDS B Pole Ctrs.	BARRIER ENDS ONLY C Length
02	1.31	1.73	0.43	0.98
03	1.75	2.17	0.87	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

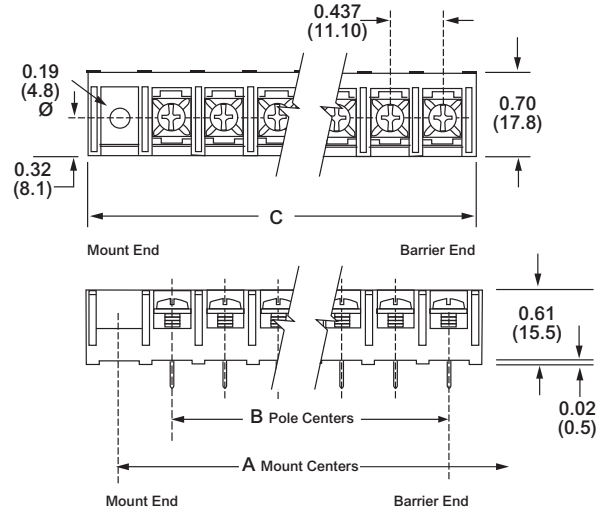
Dimensions in inches. To convert to millimeters, multiply by 25.4.

Dimesions - in (mm)

A3000 & LP3000 Series



CB3000 Series



Series A3000
Single Row Terminal Blocks

Part Numbering System

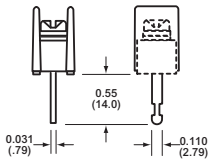
Series	Terminal Style	Base/End (Views pg. 15)	Poles	Screw Options	Options
A3	☐☐	☐	☐☐	☐☐☐☐	☐☐☐
A3 - standard barrier	**01** - handwired **02** - printed circuit **03** - non feed-thru **04** - wire wrap tail **05** - extended handwired **07** - extended pin **09** - 0.250 QC short **10** - 0.187 QC **19** - 0.250 QC long	**1** - std. base/mount end **2** - std. base/barrier end **3*** - insulator base/mount end **4*** - insulator base/barrier end **5**** - closed base/mount end	**02** to **28** **02** to **26** on mount end base	Blank - std. screw **00** - screws shipped bulk **03** - stainless steel **04** - brass nickel-plated **07** - steel SEMS zinc-plated (not available with hardware options) **09** - brass SEMS nickel-plated (not available with hardware options) **07WR** - steel SEMS wire ready (A3 only) **CA†** - captive screw	**AB** - angle mnt. options (pg 20) **A1** to **A9** - 0.250" QC **B1** to **B9** - 0.187" QC **L1** to **L6** marking options (pg 27) **MP, MT** mounting plates (pg 20) **RC** - retaining clips (pg 20) **R30** to **R77** - right angle bends (pg 20) **S1** - solder lug/flat **J201***** - flat slip-on jumper **OJ3***, OJ5*** & **OJ7***** - over barrier jumpers **Covers** - (pg 28)

*Base/End Styles 3 and 4 not available with 02, 03, and 09 terminals.
**Base/End Note: 5 Style only available with 03 terminals.
***Contact factory for configuration.

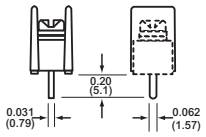
†Not compatible with 03 stainless steel screw option.

Terminal Styles

Inches (Millimeters)

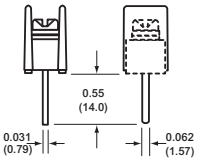


01
Handwired

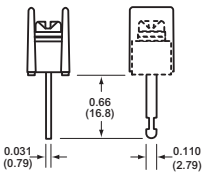


02
Printed Circuit

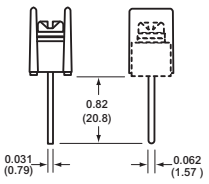
03
Non Feed-Thru



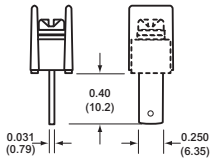
04
Wire Wrap Tail



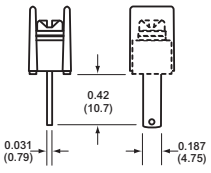
05
Extended Handwired



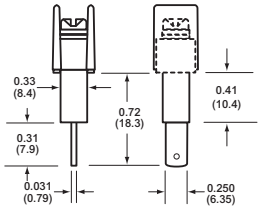
07
Extended Pin



09
0.250″ QC Short



10
0.187″ QC



19
0.250″ QC Long

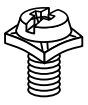
Screw Options (Bulk ordering part numbers are in parentheses)

Standard
Zinc-Plated Steel
(F505-J)

03
Stainless Steel
(F507-J)

04
Brass
Nickel-Plated
(F506-3)

07
Steel SEMS
Zinc-Plated
(F523-J)



09
Brass SEMS
Nickel-Plated
(F524-J)

07WR
Wire Ready
(A3 only)

Series LP3000

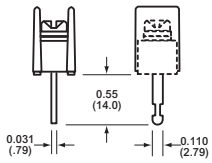
Single Row Terminal Blocks

Part Numbering System

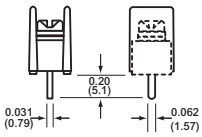
Series	Terminal Style	Base/End (Views pg. 15)	Poles	Screw Options	Options
LP3	☐☐	☐	☐☐	☐☐☐☐	☐☐☐
LP3 - low profile barrier	**01** - handwired **02** - printed circuit **03** - non feed-thru **04** - wire wrap tail **05** - extended handwired **06** - handwired **07** - extended pin	**1** - std. base/mount end **2** - std. base/barrier end **3*** - insulator base/mount end **4*** - insulator base/barrier end **5**** - closed base/mount end	**02** to **28** **02** to **26** on mount end base	Blank - std. screw **00** - screws shipped bulk **04** - brass nickel-plated **07** - steel SEMS zinc-plated (not available with hardware options) **07WR** - steel SEMS wire ready (A3 only) **CA** - captive screw	**A1** to **A9** - 0.250" QC **B1** to **B9** - 0.187" QC **L1** to **L6** marking options (pg 27) **MP** mounting plates (pg 20) **R30** to **R77** - right angle bends (pg 20) **J201***** - flat slip-on jumper †**OJ3***, **OJ5*** & **OJ7***** - over barrier jumpers **Covers** - (pg 28)

*Base/End Style 3 and 4 only available with 01 and 05 terminals
**Base/End Style 5 only available with 03 terminals.
***Contact factory for configuration.

Terminal Styles

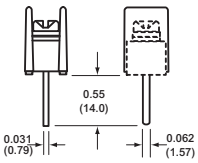


01
Handwired

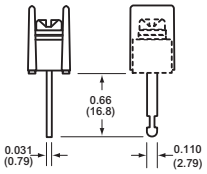


02
Printed Circuit

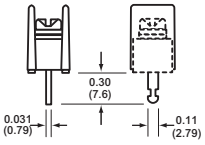
03
Non Feed-Thru



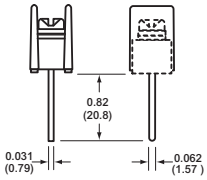
04
Wire Wrap Tail



05
Extended Handwired



06
Handwired

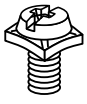


07
Extended Pin

Screw Options (Bulk ordering part numbers are in parentheses)

Standard
Zinc-Plated Steel
(F505-J)

04
Brass
Nickel-Plated
(F506-J)



07
Steel SEMS
Zinc-Plated
(F523-J)

07WR
Wire Ready
(A3 only)

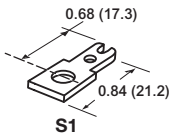
Series A3000 & LP3000

Single Row Terminal Blocks *Continued*

Hardware Options (Bulk ordering part numbers are in parentheses)

Inches (Millimeters)

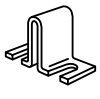
Solder Lugs*



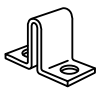
S1
(2S1-J)

†J201
Flat slip-on
(J201-J)

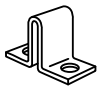
Jumpers



†OJ3
(OJ3-J)

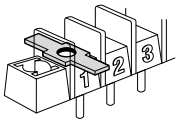


†OJ7
LP3 Only
(OJ7-J)

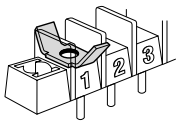


†OJ5
(OJ5-J)

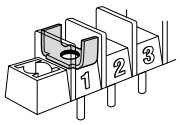
Quick Connects
Blade Width A = 0.250" Blade Width B = 0.187"



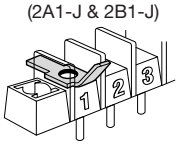
A1 & B1
(2A1-J & 2B1-J)



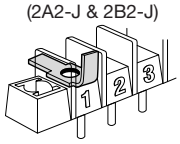
A2 & B2
(2A2-J & 2B2-J)



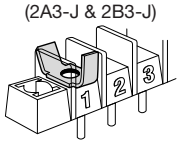
A3 & B3
(2A3-J & 2B3-J)



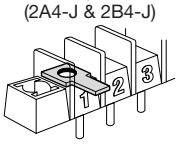
A4 & B4
(2A4-J & 2B4-J)



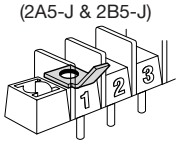
A5 & B5
(2A5-J & 2B5-J)



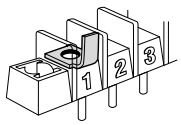
A6 & B6
(2A6-J & 2B6-J)



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



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



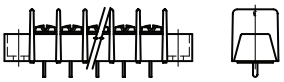
A9 & B9
(2A9-J & 2B9-J)

*A3 only

†Contact factory for pole configuration.

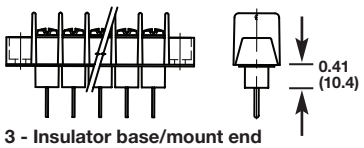
Base/End Options

Inches (Millimeters)

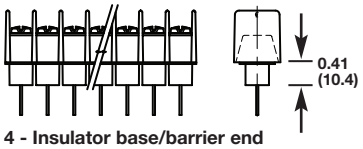


1 - Standard base/mount end

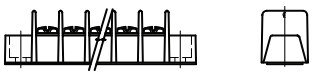
2 - Standard base/barrier end



3 - Insulator base/mount end

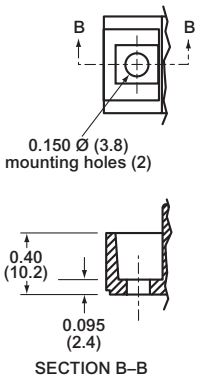


4 - Insulator base/barrier end



5 - Closed base/mount end

Mount End Details



1, 3 & 5 Mount End

Series A3000 & LP3000

Single Row Terminal Blocks *Continued*

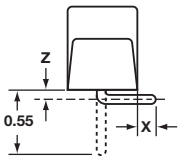
Mounting Options

Inches (Millimeters)

Right Angle Bends (A3, LP3 only)

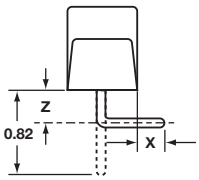
Right angle terminals are offered on the A3000 & LP3000 Series. Configurations are defined in these dimensions: X = pin extension beyond the block base; Z = length from block base to centerline of the terminal tip. Standard bends consist of the X and Z dimensions shown in the chart. Specify by adding the selected Bend Option Code to the terminal part 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

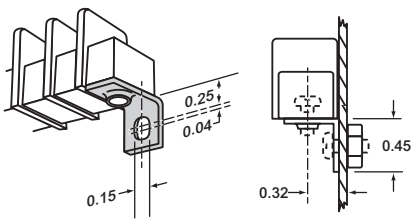
07 Terminal Bend Configurations



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
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

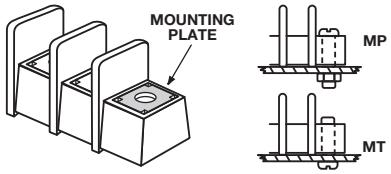
Dimensions in inches. To convert to millimeters, multiply by 25.4.

Angle Brackets (A3 only)



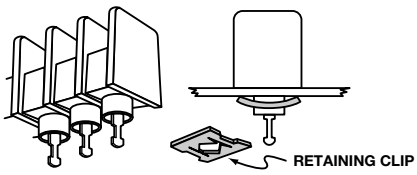
Option AB
Angle brackets enable block to be fastened at right angles to normal mount position. Bulk part number **2AB-J**.

Mounting Plates



Options MP & MT
MP Metal inserts with 0.150" dia. hole accept #6 screw. **MT** Metal inserts with tapped hole accept #6-32 screw.
Bulk part numbers: **2MP-J**
2MT-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 CB3000
Single Row Terminal Blocks

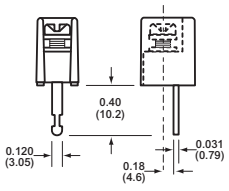
Part Numbering System

Series	Terminal Style	Base/End	Poles	Screws	Options
CB3	☐☐	☐	☐☐	☐☐☐☐	☐☐☐
CB3 - closed back	**01** - handwired #6-32 screw **02** - printed circuit #6-32 screw **07** - extended pin #6-32 screw **51*** - handwired #8-32 **52*** - printed circuit #8-32	**1** - mount end **2** - barrier end	**02** to **28** **02** to **26** on mount end base	**07** - steel SEMS (standard) **09** - brass SEMS nickel-plated **CA** - SEMS captive	**AB** - angle mounting brackets (pg 22) **A7** to **A9** - 0.250" QC **B7** to **B9** - 0.187" QC **EB** - exit back terminals **L1** to **L6** marking options (pg 27) **LT1** to **LT6** marking options (pg 27) **MP** mtg. plates (pg 22) **OJ3**** & **OJ7**** - over barrier jumpers **Covers** - (pg 28)

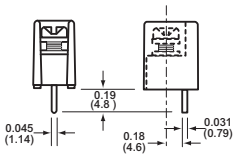
*Note: #8-32 screw is a special with #6-32 head.
**Contact factory for configuration.

Terminal Styles

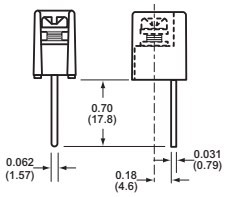
Inches (Millimeters)



01
Handwired #6-32 screw
51
#8-32 screw

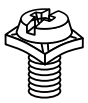


02
Printed Circuit #6-32 screw
52
#8-32 screw

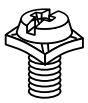


07
Extended Pin #6-32 screw

Screw Options (Bulk ordering part numbers are in parentheses)



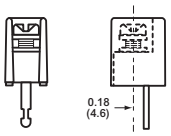
07
Steel SEMS
Zinc-Plated
(standard)
(B001-7084-J)



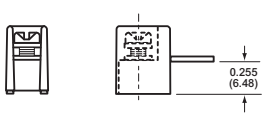
09
Brass SEMS
Nickel-Plated
(F524-J)

CB3 Terminal Exit Options

Inches (Millimeters)



Exit Rear (std.)



EB
Exit Back

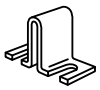
Series CB3000

Single Row Terminal Blocks *Continued*

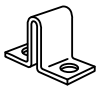
Hardware Options (Bulk ordering part numbers are in parentheses)

Inches (Millimeters)

Jumpers

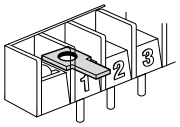


†OJ3
(OJ3-J)

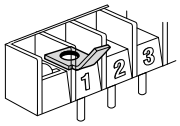


†OJ7
(OJ7-J)

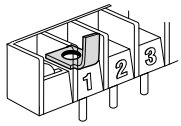
Quick Connects
Blade Width A = 0.250". Blade Width B = 0.187".



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



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



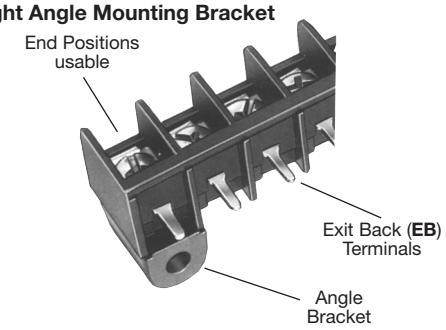
A9 & B9
(2A9-J & 2B9-J)

†Contact factory for pole configuration.

Mounting Options

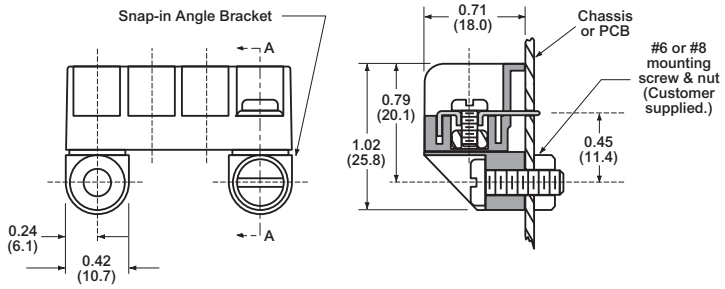
Inches (Millimeters)

Right Angle Mounting Bracket



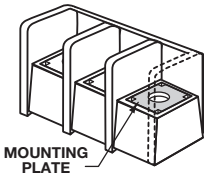
Mounts blocks on PC boards at a right angle.

- 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



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