

4 T E R M I N A L B L O C K S

302/312 Series

3.5mm

302 - [] - 1 - 1002
312
↓
Poles
(02 to 24)

EuroPCB Terminal Blocks

MSM (MSE) Series

MSM (MSE) 90° Series

Specifications: **MSM(MSE) Series**

Features:

- *MSM is **green** color with clamp in the *open* position
- *MSE is **black** with clamp in the *closed* position
- *Double captive screws
- *Elevator clamp system
- *Testing holes/points
- *2 to 12 positions single mold
- *2 to 30 positions modular
- *Housing is resistant to chlorinated solvents, with no dioxin or detrimental to health halogens.
- *Every position of this product is mechanically and electrically tested during assembly to ensure a 100% defect free product.
- *Minimum 5 microns of tin plating on terminal for easy soldering.

Electrical

Current: 17.5A @ 250V
Wire range: 14 to 30 AWG
Wire section(mm²): 0.05 to 2.5mm²
Pin dimension: 1mm x 0.8mm
CR: <15mΩ
IR: >10⁹ Ω (500V DC)
Operating temp: -40°C to +110°C
Stripping length: 6mm
Torque: 0.5 Nm
PCB holes: min 1.4mm
PCB thickness: max 2.8mm
Climactic category: 40/110/21 Acc. to IEC 68-1

Materials

Housing: Polyamide 6,6 (UL94V-0)
Clamp: Copper alloy, Ni plated
Terminal: Copper alloy, Tin plated
Screw: M3, copper alloy, Ni plated
Colors available: Green, black

Marking

Numbered marking strips 5 and 5.08mm centers.

Numbered	Order Number
1-10	ESA014000110
11-20	ESA014001120
21-30	ESA014002130
31-40	ESA014003140
41-50	ESA014004150

Ink marking by factory (specify in order number):
Factory ink is permanent and will not rub off. Ink has fluorescent tint for greater visibility.

0=no printing

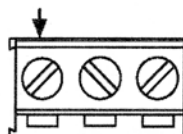
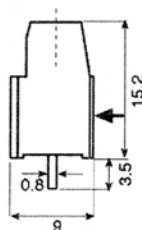
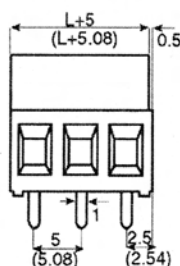
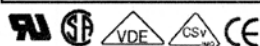
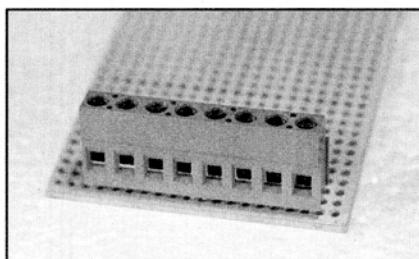
A=upside down printing (consecutive #'s R to L)

B=regular printing (consecutive #'s L to R)

Custom markings are welcome with minimum order. Contact factory for information.

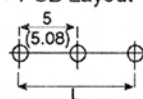
17.5A 300V

5 and 5.08mm



Also available with a 35° wire entry.

PCB Layout



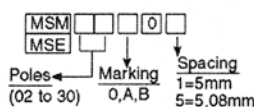
Dimensions

n=number of poles

L=(n-1) x 5 (for 5mm spacing)

L=(n-1) x 5.08 (for 5.08mm spacing)

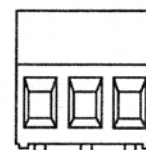
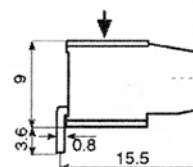
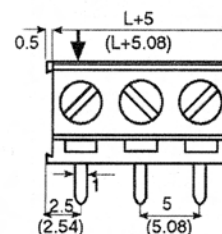
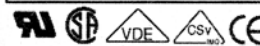
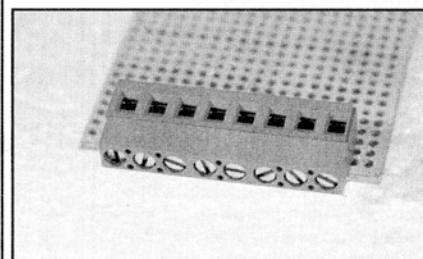
Ordering Information



Also available in 10mm and 10.16mm centers.

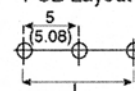
17.5A 300V

5 and 5.08mm



Also available with a 270° pin bend.

PCB Layout



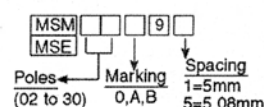
Dimensions

n=number of poles

L=(n-1) x 5 (for 5mm spacing)

L=(n-1) x 5.08 (for 5.08mm spacing)

Ordering Information



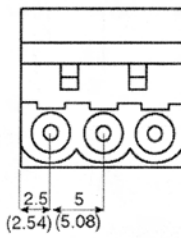
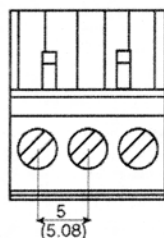
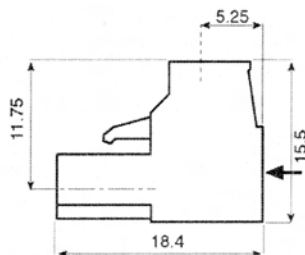
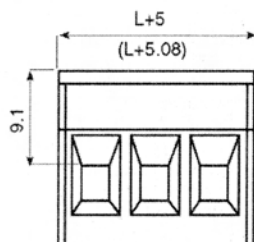
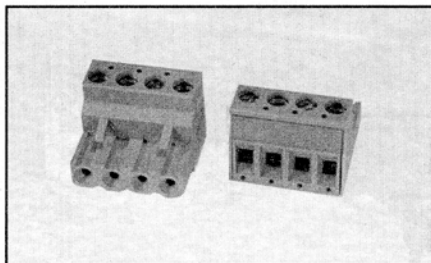
Also available in 10mm and 10.16mm centers.

Pluggable Terminal Blocks

CIF Plug

12A 300V

5 and 5.08mm



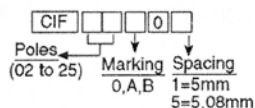
Dimensions

n=number of poles

$L=(n-1) \times 5$ (for 5mm spacing)

$L=(n-1) \times 5.08$ (for 5.08mm spacing)

Ordering Information

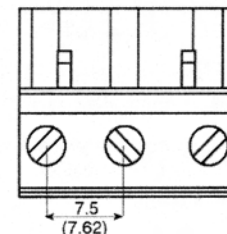
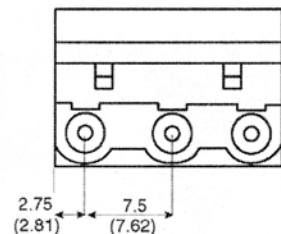
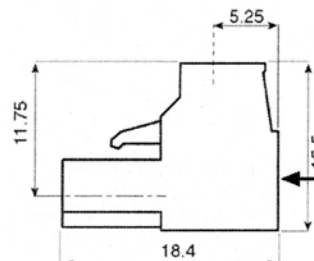
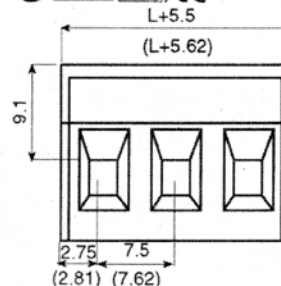
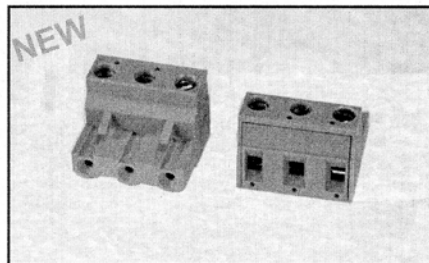


Also available in 10mm and 10.16mm centers.

CIF Plug

12A 450V

7.5 and 7.62mm



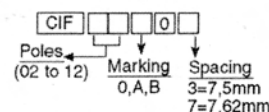
Dimensions

n=number of poles

$L=(n-1) \times 7.5$ (for 7.5mm spacing)

$L=(n-1) \times 7.62$ (for 7.62mm spacing)

Ordering Information



Specifications: CIF Series

Features:

- *CIF is **green** color with clamp in the open position
- *Double captive screws
- *2 to 25 positions single mold
- *Elevator clamp system
- *Use with CIM or CPM headers
- *Housing is resistant to chlorinated solvents, with no dioxin or detrimental to health halogens
- *Every position of this product is mechanically and electrically tested during assembly to ensure a 100% defect free product
- *Minimum 5 microns of tin plating on terminal for easy soldering

Electrical

- Current(5/5.08): 12A @ 300V
 Current(7.5/7.62): 12A @ 450V
 Wire range: 12 to 30 AWG
 Wire section(mm²): 0.05 to 2.5mm²
 CR: <15 mΩ
 IR: >10⁹ Ω (500V DC)
 Operating temp: -40°C to 110°C
 Stripping length: 6mm
 Torque: 3.5 in-lb
 PCB holes: N/A
 PCB thickness: N/A
 Climatic category: 40/110/21 Acc. to IEC 68-1
 Insertion force: max 3 N
 Disconnecting force: min 1.5 N

Materials

- Housing: Polyamide 6,6 (UL94V-0)
 Clamp: Copper alloy, Ni plated
 Spring/leaf contact: Phosphorus bronze, Tin plated
 Screw: M3, copper alloy, Ni plated
 Colors available: Green

Marking

Adhesive marking strips 5 and 5.08mm centers.

Numbered	Order Number
1-10	ESA14000110
11-20	ESA14001120
21-30	ESA14002130
31-40	ESA14003140
41-50	ESA14004150

Numbered marking strips 7.5 and 7.62mm centers.

Numbered	Order Number
1-10	ESA34000110
11-20	ESA34001120
21-30	ESA34002130

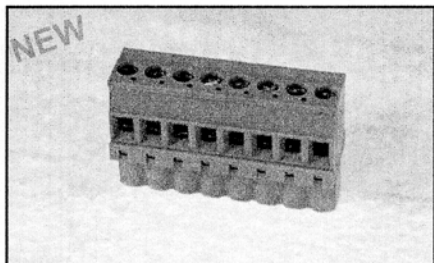
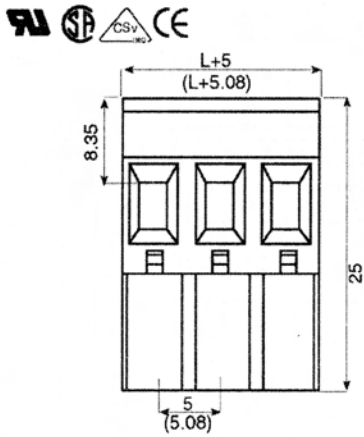
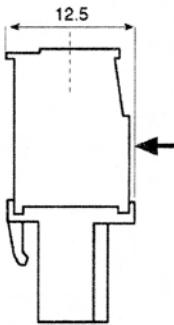
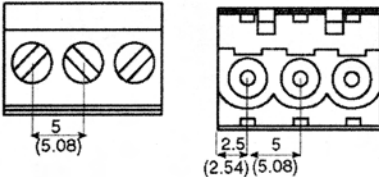
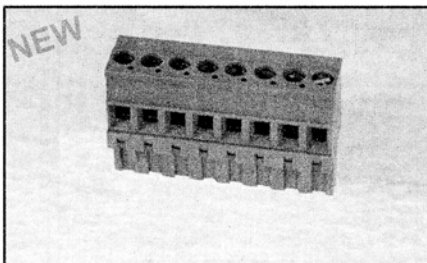
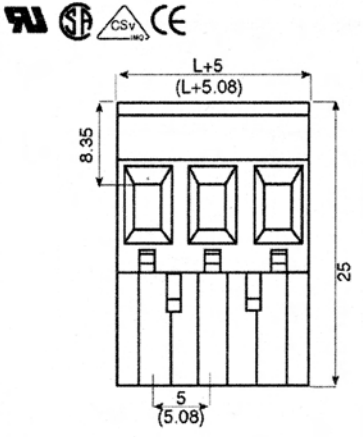
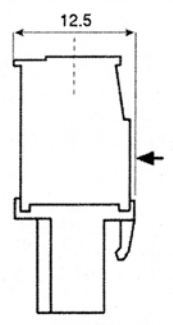
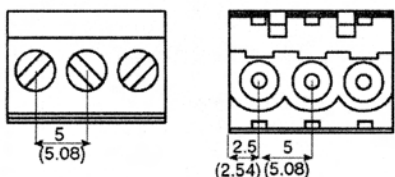
Ink marking by factory (specify in order number):
 Factory ink is permanent and will not rub off. Ink has fluorescent tint for greater visibility.

0=no printing

A=upside down printing (consecutive #'s R to L)
 B=regular printing (consecutive #'s L to R)

Custom markings are welcome with minimum order. Contact factory for information.

3.5mm and 3.81mm pluggable blocks now also available!
CTF/CTM series

Pluggable Terminal Blocks	CVF Left Plug	CVF Right Plug																								
Specifications: CVF Series Features: *CVF is green color with clamp in the open position *Left and Right hand versions available *Double captive screws *Elevator clamp system *2 to 25 positions single mold *Housing is resistant to chlorinated solvents, with no dioxin or detrimental to health halogens *Every position of this product is mechanically and electrically tested during assembly to ensure a 100% defect free product *Minimum 5 microns of tin plating on terminal for easy soldering Electrical Current: 12A @ 300V Wire range: 12 to 30 AWG Wire section(mm²): 0.05 to 2.5mm² CR: <15 mΩ IR: >10⁹ Ω (500V DC) Operating temp: -40°C to 110°C Stripping length: 6mm Torque: 3.5 in-lb PCB holes: N/A PCB thickness: N/A Climactic category: 40/110/21 Acc. to IEC 68-1 Insertion force: max 3 N Disconnecting force: min 1.5 N Materials Housing: Polyamide 6,6 (UL94V-0) Clamp: Copper alloy, Ni plated Spring/leaf contact: Phosphorus bronze, Tin plated Screw: M3, copper alloy, Ni plated Colors available: Green Marking Numbered marking strips 5 and 5.08mm centers. <table><tr><th>Numbered</th><th>Order Number</th></tr><tr><td>1-10</td><td>ESA14000110</td></tr><tr><td>11-20</td><td>ESA14001120</td></tr><tr><td>21-30</td><td>ESA14002130</td></tr><tr><td>31-40</td><td>ESA14003140</td></tr><tr><td>41-50</td><td>ESA14004150</td></tr></table> Ink marking by factory (specify in order number): Factory ink is permanent and will not rub off. Ink has fluorescent tint for greater visibility. 0=no printing A=upside down printing (consecutive #'s R to L) B=regular printing (consecutive #'s L to R) Custom markings are welcome with minimum order. Contact factory for information.	Numbered	Order Number	1-10	ESA14000110	11-20	ESA14001120	21-30	ESA14002130	31-40	ESA14003140	41-50	ESA14004150	12A 300V 5 and 5.08mm     Dimensions n=number of poles L=(n-1) x 5 (for 5mm spacing) L=(n-1) x 5.08 (for 5.08mm spacing) Ordering Information <table><tr><th>Poles (02 to 25)</th><th>Marking 0, A, B</th><th>Spacing 1=5mm 5=5.08mm</th></tr><tr><td>CVF</td><td></td><td></td></tr></table> Also available in 10mm and 10.16mm centers.	Poles (02 to 25)	Marking 0, A, B	Spacing 1=5mm 5=5.08mm	CVF			12A 300V 5 and 5.08mm     Dimensions n=number of poles L=(n-1) x 5 (for 5mm spacing) L=(n-1) x 5.08 (for 5.08mm spacing) Ordering Information <table><tr><th>Poles (02 to 25)</th><th>Marking 0, A, B</th><th>Spacing 1=5mm 5=5.08mm</th></tr><tr><td>CVF</td><td></td><td></td></tr></table> Also available in 10mm and 10.16mm centers.	Poles (02 to 25)	Marking 0, A, B	Spacing 1=5mm 5=5.08mm	CVF		
Numbered	Order Number																									
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Poles (02 to 25)	Marking 0, A, B	Spacing 1=5mm 5=5.08mm																								
CVF																										

Pluggable Terminal Blocks

CVF Left Plug

CVF Right Plug

Specifications: CVF Series

Features:

- *CVF is **green** color with clamp in the *open* position
- *Left and Right hand versions available
- *Double captive screws
- *Elevator clamp system
- *2 to 12 positions single mold
- *Housing is resistant to chlorinated solvents, with no dioxin or detrimental to health halogens
- *Every position of this product is mechanically and electrically tested during assembly to ensure a 100% defect free product
- *Minimum 5 microns of tin plating on terminal for easy soldering

Electrical

Current	12A @ 450V
Wire range:	12 to 30 AWG
Wire section(mm ²):	0.05 to 2.5mm ²
CR:	<15 mΩ
IR:	>10 ⁹ Ω (500V DC)
Operating temp:	-40°C to 110°C
Stripping length:	6mm
Torque:	3.5 lb-in
PCB holes:	N/A
PCB thickness:	N/A
Climactic category:	40/110/21 Acc. to IEC 68-1
Insertion force:	max 3 N
Disconnecting force:	min 1.5 N

Materials

Housing:	Polyamide 6,6 (UL94V-0)
Clamp:	Copper alloy, Ni plated
Spring/leaf contact:	Phosphorus bronze, Tin plated
Screw:	M3, copper alloy, Ni plated
Colors available:	Green

Marking

Numbered marking strips 7.5 and 7.62mm centers.

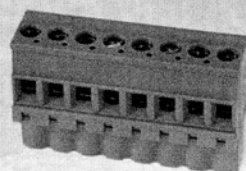
Numbered	Order Number
1-10	ESA34000110
11-20	ESA34001120
21-30	ESA34002130

Ink marking by factory (specify in order number):
Factory ink is permanent and will not rub off. Ink has fluorescent tint for greater visibility.

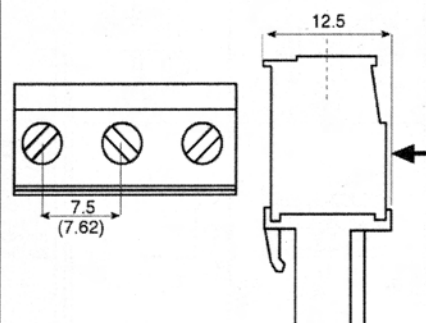
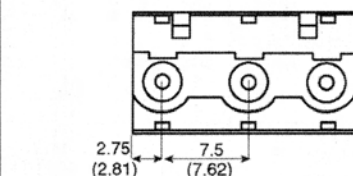
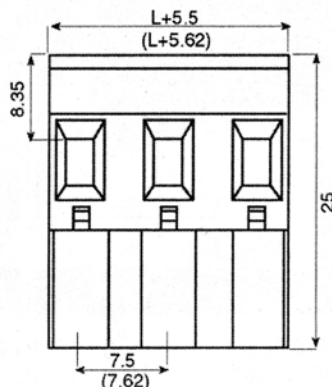
0=no printing
A=upside down printing (consecutive #'s R to L)
B=regular printing (consecutive #'s L to R)

Custom markings are welcome with minimum order. Contact factory for information.

12A 450V
NEW



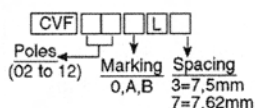
7.5 and 7.62mm spacing



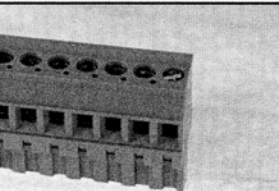
Dimensions

n=number of poles
L=(n-1) x 7.5 (for 7.5mm spacing)
L=(n-1) x 7.62 (for 7.62mm spacing)

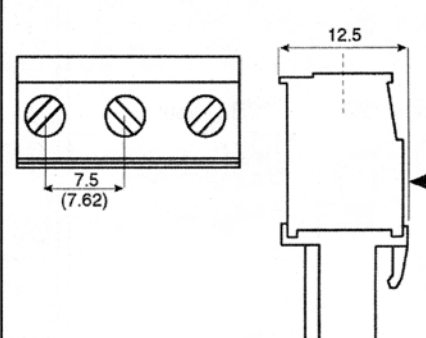
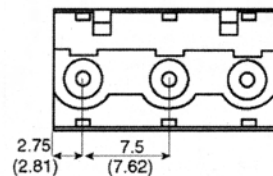
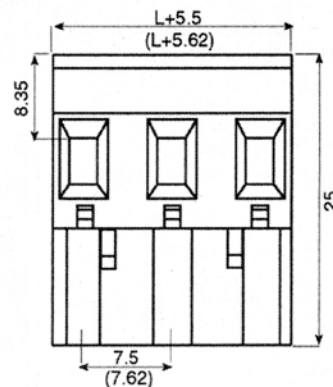
Ordering Information



12A 450V



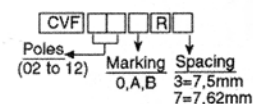
7.5 and 7.62mm spacing



Dimensions

n=number of poles
L=(n-1) x 7.5 (for 7.5mm spacing)
L=(n-1) x 7.62 (for 7.62mm spacing)

Ordering Information



Pluggable Terminal Blocks

Specifications: **CIM Series**

Features:

- *CIM headers for use with CIF and CVF plugs
- *2 to 25 positions single mold (5/5.08)
- *2 to 12 positions single mold (7.5/7.62)
- *4 Styles available (see chart)
- *Key coding capable
- *Housing is resistant to chlorinated solvents, with no dioxin or detrimental to health halogens.
- *Every position of this product is mechanically and electrically tested during assembly to ensure a 100% defect free product.
- *Minimum 5 microns of tin plating on terminal for easy soldering.
- *Other header styles available: **Dual Tier headers (in-line or staggered)** and **Ejector headers**

Electrical

Current(5/5.08): 12A @ 300V
 Current(7.5/7.62): 12A @ 450V
 Pin dimension: 1mm x 1mm
 CR: <15mΩ
 IR: >10⁹ Ω (500V DC)
 Operating temp: -40°C to +110°C
 PCB holes: min 1.4mm
 PCB thickness: max 2.4mm
 Climactic category: 40/110/21 Acc. to IEC 68-1
 Insertion force: max 3 N
 Disconnecting force: min 1.5 N

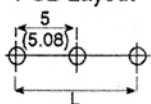
Materials

Housing: Polyamide 6,6 (UL94V-0)
 Terminal pin: Bronze, Tin plated
 Colors available: Green

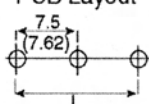
Marking

Consult factory for marking options.

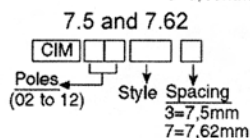
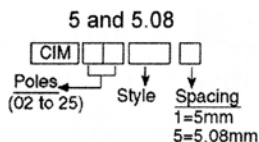
PCB Layout



PCB Layout



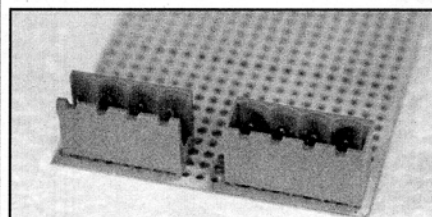
Ordering Information



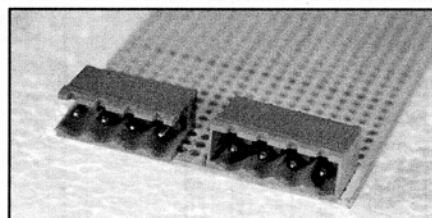
CIM Headers

12A 300V

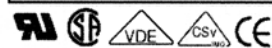
5 and 5.08mm



Vertical



Right Angle



Style	Front	Side
0P closed end vertical		
0A open end vertical		
9P closed end right angle		
9A open end right angle		

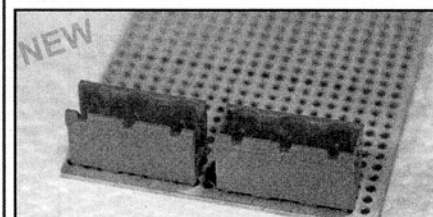
Dimensions

n=number of poles
 L=(n-1) x 5 (for 5mm spacing)
 L=(n-1) x 5.08 (for 5.08mm spacing)
 Also available in 10mm and 10.16mm centers.

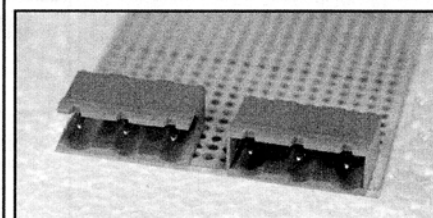
CIM Headers

12A 450V

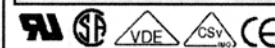
7.5 and 7.62mm



Vertical



Right Angle



Style	Front	Side
0P closed end vertical		
0A open end vertical		
9P closed end right angle		
9A open end right angle		

Dimensions

n=number of poles
 L=(n-1) x 7.5 (for 7.5mm spacing)
 L=(n-1) x 7.62 (for 7.62mm spacing)

Screwless Terminal Blocks

675 -1 Series

675-3 Series

Specifications **675-1 Series**

Features:

- *Compact 3.81mm spacing
- *Available in several colors for coding positions to wire colors
- *1 position modular blocks
- *2 pins per pole for stability
- *No exposed metal parts

Electrical

Current: 10A @ 300V
Wire range: 14 to 20 Sol
Wire range: 16 to 20 Str
Wire section(mm²): 0.5 to 1.5mm²
Pin dimension: 0.8mm x 0.5mm
Dielectric strength: 4kV
IR: >5MΩ (500V DC)
Operating temp: -40°C to +105°C
Stripping length: 9mm
PCB holes: min 1.1mm
PCB thickness: max 2.4mm

Materials

Housing/button:	Polyamide 6,6 (UL94V-0)
Contact spring:	Stainless steel
Terminal pins:	Brass, silver and tin plated
Colors available:	Gray (standard), for others
see	how to order

Specifications **675-3 Series**

Features:

- *Standard 5mm spacing
- *Available in several colors for coding positions to wire colors
- *Available with or without push button
- *1 position modular blocks
- *2 pins per pole for stability
- *No exposed metal parts

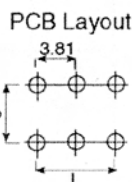
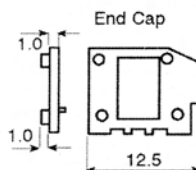
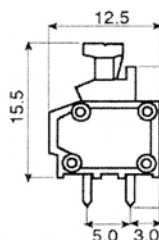
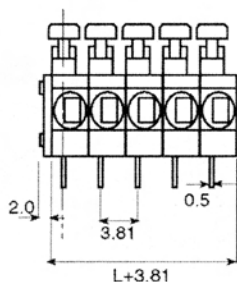
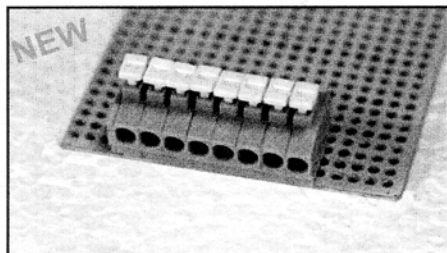
Electrical

Current: 10A @ 300V
Wire range: 14 to 20 Sol
Wire range: 16 to 20 Str
Wire section(mm²): 0.5 to 1.5mm²
Pin dimension: 0.8mm x 0.5mm
Dielectric strength: 4kV
IR: >5M Ω (500V DC)
Operating temp: -40°C to +105°C
Stripping length: 9mm
PCB holes: min 1.1mm
PCB thickness: max 2.4mm

Materials

Housing/button:	Polyamide 6,6 (UL94V-0)
Contact spring:	Stainless steel
Terminal pins:	Brass, silver and tin plated
Colors available:	Gray (standard), for others
see	how to order

10A 300V 3.81mm



Dimensions

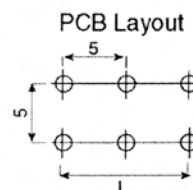
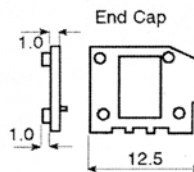
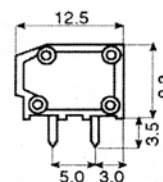
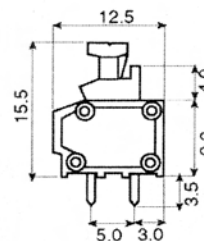
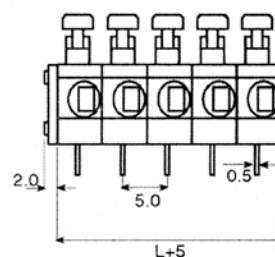
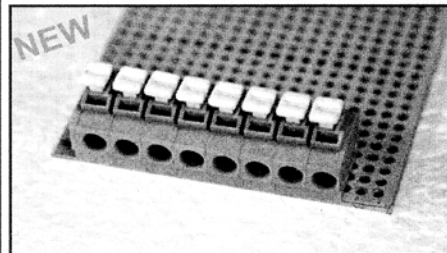
n=number of poles
 $L=(n-1) \times 3.81$

Ordering Information



Poles ↓	color options(L to R)
(02 to 24)	0=black 5=green
	1=yellow 6=blue
	2=red 8=light grey(std)
	3=orange 9=white
	4=dark grey

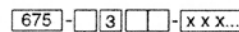
10A 300V 5mm



Dimensions

n=number of poles
 $L=(n-1) \times 5$

Ordering Information



blank=with button
5=without button

color options(L to R)
0=black 5=green
1=yellow 6=blue
2=red 8=light grey(std)
3=orange 9=white
4=dark grey

Poles
(02 to 24)

Also available in 7.5mm and 10mm centers.

4 T E R M I N A L B L O C K S

Euro Terminal Strips

PA Series Dual Row European Style Terminal Strips

Versions with standoff feet now available!

Specifications PA Series

Features:

- *Wire guard standard on all series
- *Natural white color
- *Captive screws

PA8DS

Current: 7A @ 600V
Wire range: 18 to 20 sol
Wire section(mm²): 1.5 mm²
Centerline spacing: 8 mm
Wire hole size: $\phi 2.7$ mm
Mounting holes: $\phi 2.9$ mm
Dimension A=95.8mm
Dimension B=16.3mm

PA10DS

Current: 20A @ 600V
Wire range: 14 to 18 AWG
Wire section(mm²): 2.5 mm²
Centerline spacing: 10 mm
Wire hole size: $\phi 3.2$ mm
Mounting holes: $\phi 3.6$ mm
Dimension A=117.2mm
Dimension B=20.1mm

PA12DS

Current: 35A @ 600V
Wire range: 10 to 18 AWG
Wire section(mm²): 6 mm²
Centerline spacing: 12 mm
Wire hole size: $\phi 3.9$ mm
Mounting holes: $\phi 3.8$ mm
Dimension A=140.5mm
Dimension B=23.8mm

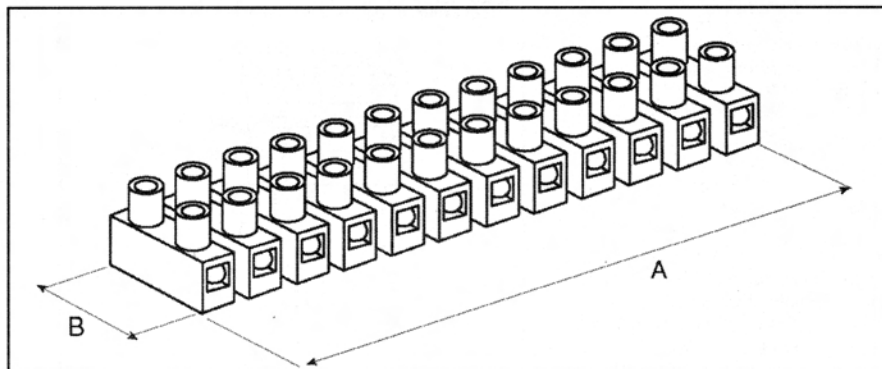
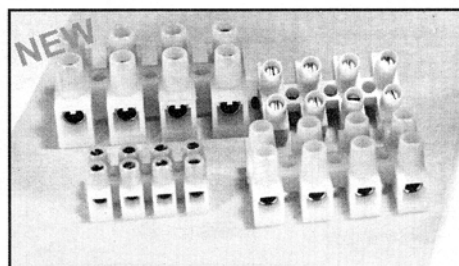
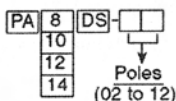
PA14DS

Current: 50A @ 600V
Wire range: 8 to 20 AWG
Wire section(mm²): 10 mm²
Centerline spacing: 14 mm
Wire hole size: $\phi 4.8$ mm
Mounting holes: $\phi 4.3$ mm
Dimension A=158mm
Dimension B=25.6mm

Materials (All Series)

Housing: Polyamide 6,6 (UL94V-2)
Terminal: Zinc alloy, Tin plated
Screw: Steel, yellow chromated
Positions available: 2 to 12
Temperature range: -35°C to +105°C

Ordering Information



PA8



Style	Front	Bottom
8 8mm centers		
10 10mm centers		
12 12mm centers		
14 14mm centers		

PA10



PA12



PA14



EuroPCB Tower Terminal Blocks

PSQ (PEQ) M Series

PSQ (PEQ) H Series

Specifications: **PSQ(PEQ) Series** Features:

- *PSQ is **green** color with clamp in the *open* position
- *PEQ is **black** with clamp in the *closed* position
- *Double captive screws
- *Elevator clamp style
- *Testing holes/points
- *2 and 3 positions single mold
- *Up to 30 positions modular
- *Housing is resistant to chlorinated solvents, with no dioxin or detrimental to health halogens.
- *Positions are contacts *per row*, not *total* contacts
- *All PSQ/PEQ and MSQ/MEQ blocks can be interlocked to form custom configurations
- *Every position of this product is mechanically and electrically tested during assembly to ensure a 100% defect free product.
- *Minimum 5 microns of tin plating on terminal for easy soldering.

Electrical

Current: 24A @ 300V
Wire range: 12 to 30 AWG
Wire section(mm²): 0.05 to 4mm²
Pin dimension: 1mm x 0.8mm
CR: <15mΩ
IR: >10⁹ Ω (500V DC)
Operating temp: -40°C to +110°C
Stripping length: 6.5mm
Torque: 0.5 Nm
PCB holes: min 1.4mm
PCB thickness: max 2.4mm
Climactic category: 40/110/21 Acc. to IEC 68-1

Materials

Housing: Polyamide 6,6 (UL94V-0)
Clamp: Copper alloy, Ni plated
Terminal: Copper alloy, Tin plated
Screw: M3, copper alloy, Ni plated
Colors available: Green, black

Marking

Adhesive marking strips 5 and 5.08mm centers.

Numbered	Order Number
1-10	ESA14000110
11-20	ESA14001120
21-30	ESA14002130
31-40	ESA14003140
41-50	ESA14004150

Ink marking by factory (specify in order number):
Factory ink is permanent and will not rub off. Ink has fluorescent tint for greater visibility.

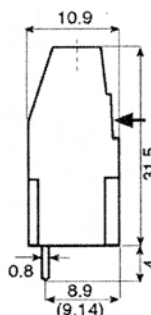
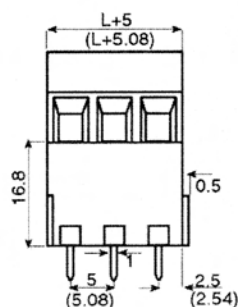
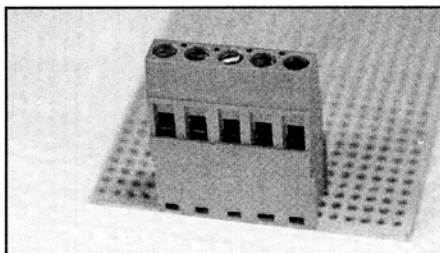
0=no printing
A=upside down printing (consecutive #'s R to L)
B=regular printing (consecutive #'s L to R)

Custom markings are welcome with minimum order. Contact factory for information.

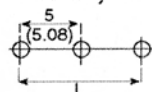
**Smaller versions of these style products are available.
PSM and PSB Series**

24A 300V

5 and 5.08mm



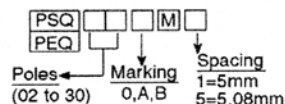
PCB Layout



Dimensions

n=number of poles
L=(n-1) x 5 (for 5mm spacing)
L=(n-1) x 5.08 (for 5.08mm spacing)

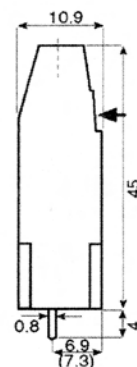
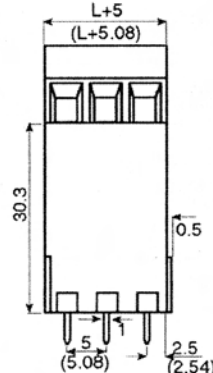
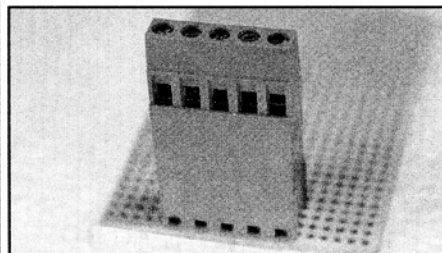
Ordering Information



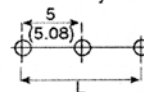
Also available in 10mm and 10.16mm centers.

24A 300V

5 and 5.08mm



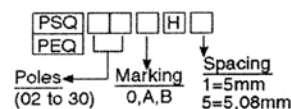
PCB Layout



Dimensions

n=number of poles
L=(n-1) x 5 (for 5mm spacing)
L=(n-1) x 5.08 (for 5.08mm spacing)

Ordering Information

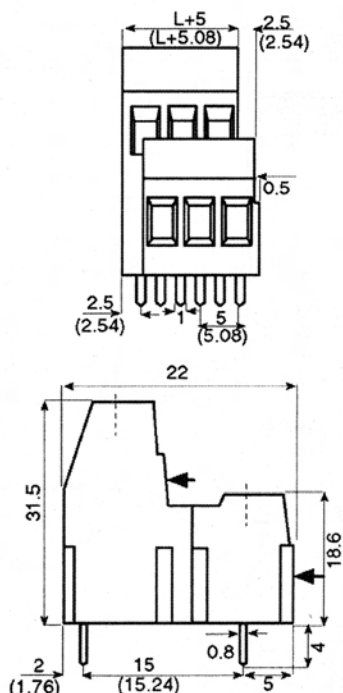
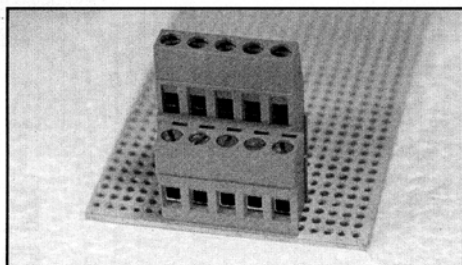


Also available in 10mm and 10.16mm centers.

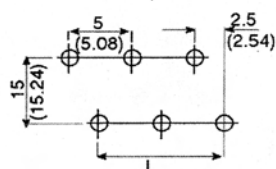
PSQ (PEQ) D Series

24A 300V

5 and 5.08mm



PCB Layout



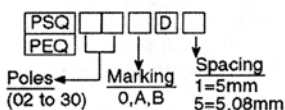
Dimensions

n=number of poles

$L=(n-1) \times 5$ (for 5mm spacing)

$L=(n-1) \times 5.08$ (for 5.08mm spacing)

Ordering Information

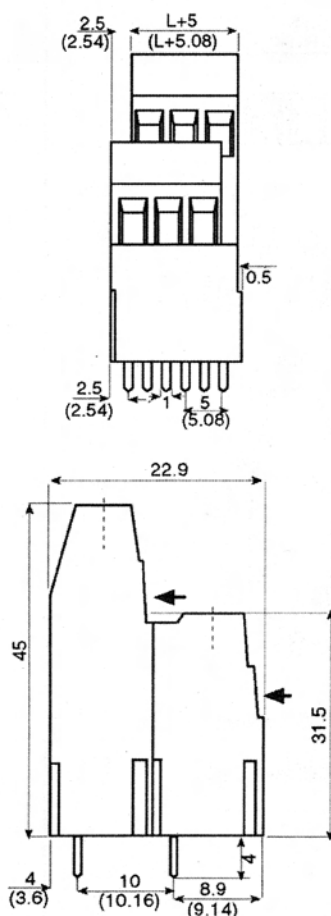
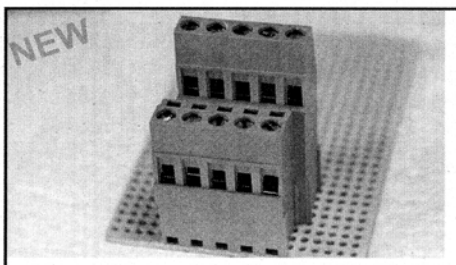


Also available in 10mm and 10.16mm centers.

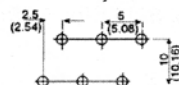
PSQ (PEQ) K Series

24A 300V

5 and 5.08mm



PCB Layout



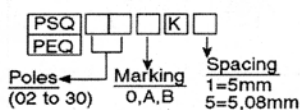
Dimensions

n=number of poles

$L=(n-1) \times 5$ (for 5mm)

$L=(n-1) \times 5.08$ (for 5.08mm spacing)

Ordering Information

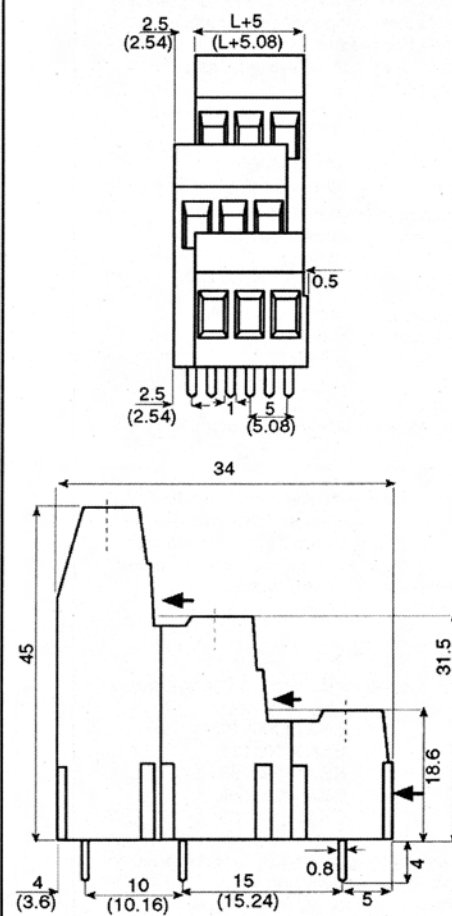
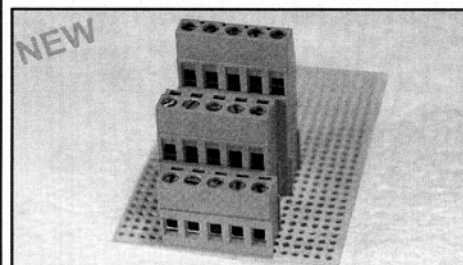


Also available in 10mm and 10.16mm centers.

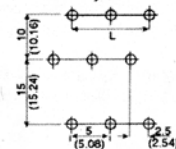
PSQ (PEQ) T Series

24A 300V

5 and 5.08mm



PCB Layout



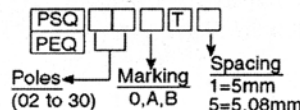
Dimensions

n=number of poles

$L=(n-1) \times 5$ (for 5mm)

$L=(n-1) \times 5.08$ (for 5.08mm spacing)

Ordering Information



Also available in 10mm and 10.16mm centers.