

PRODUCT NUMBER

20020302-XXXXXXLF

20020302- B 0  L F

PITCH

D: 3.81 mm  
G: 5.00 mm  
H: 5.08 mm

POLES

02: 2 POLES  
03: 3 POLES  
.....  
24: 24 POLES

LF : DENOTED RoHS COMPATIBLE

1 : STANDARD PRODUCT  
W/ BOX PACKING

HOUSING CODE

| CODE | COLOR             | AVAILABILITY    |
|------|-------------------|-----------------|
| 1    | GREEN(RAL 6018/T) | STANDARD        |
| 2    | BLACK             | ON REQUEST ONLY |
| 3    | GREY(RAL 7004/P)  | ON REQUEST ONLY |
| 4    | BLUE(RAL 5015/A)  | ON REQUEST ONLY |

PROPERTY TABLE

| PROPERTY TABLE                            |          |                                                                                     |                    |                    |
|-------------------------------------------|----------|-------------------------------------------------------------------------------------|--------------------|--------------------|
| FCI SERIES NAME                           |          | 09-381                                                                              | 09-500             | 09-508             |
| PITCH (mm)                                |          | 3.81                                                                                | 5.00               | 5.08               |
| VOLTAGE RATING (VAC)                      |          | 300                                                                                 | 300                | 300                |
| CURRENT RATING (A)                        |          | 6                                                                                   | 10                 | 10                 |
| APPLICABLE WIRE RANGE (AWG)               |          | 1-WIRE                                                                              | 16~26              | 14~24              |
|                                           |          | 2-WIRE                                                                              | NA                 | NA                 |
| WIRE CROSS SECTION<br>(mm <sup>2</sup> )  | SOLID    | 1-WIRE                                                                              | 1.0                | 1.5                |
|                                           |          | 2-WIRE                                                                              | NA                 | NA                 |
|                                           | STRANDED | 1-WIRE                                                                              | 1.0                | 1.5                |
|                                           |          | 2-WIRE                                                                              | NA                 | NA                 |
| OPENING CONTACT HOUSING(mm <sup>2</sup> ) |          | 1.7x1.7                                                                             | 2.4x2.4            | 2.4x2.4            |
| WIRE STRIP LENGTH(mm)                     |          | 9~10                                                                                | 9~10               | 9~10               |
| WITHSTANDING VOLTAGE (kV)                 |          | 1.6                                                                                 | 1.6                | 1.6                |
| OPERATING TEMP. (°C)                      |          | -40~+115                                                                            | -40~+115           | -40~+115           |
| SOLDERING TEMP. (°C)                      |          | 250±10<br>(5 sec.)                                                                  | 250±10<br>(5 sec.) | 250±10<br>(5 sec.) |
| POLES AVAILABLE                           |          | 02~24                                                                               | 02~24              | 02~24              |
| SAFETY CERTIFICATE                        |          |  |                    |                    |

## NOTES:

## 1. MATERIALS

- 1-1 HOUSING: THERMALPLASTIC RESIN, UL 94V-0 RATED.
- 1-2 COVER: THERMALPLASTIC RESIN, UL 94V-0 RATED.
- 1-3 LEVER: THERMALPLASTIC RESIN, UL 94V-0 RATED.
- 1-4 TERMINAL: COPPER ALLOY, TIN PLATED.
- 1-5 SPRING CLAMP: STAINLESS STEEL.

## 2. PRODUCT SPECIFICATION REFER TO FCI GS-12-625.

## 3. PRODUCT PACKING SPECIFICATION REFER TO FCI GS-14-1394.

## 4. FCI, SAFETY CERTIFICATE LOGO AND SERIES NAME TO BE SHOWN ON PRODUCT SURFACE.

## 5. THE PRODUCTS WHERE THE PART NUMBER END IN "LF" MEET THE EUROPEAN UNION DIRECTIVE AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

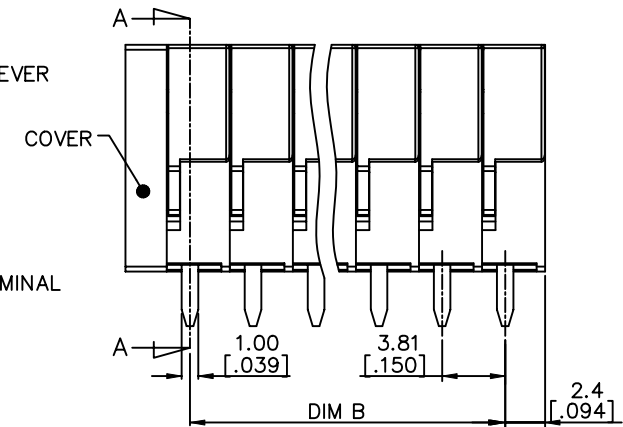
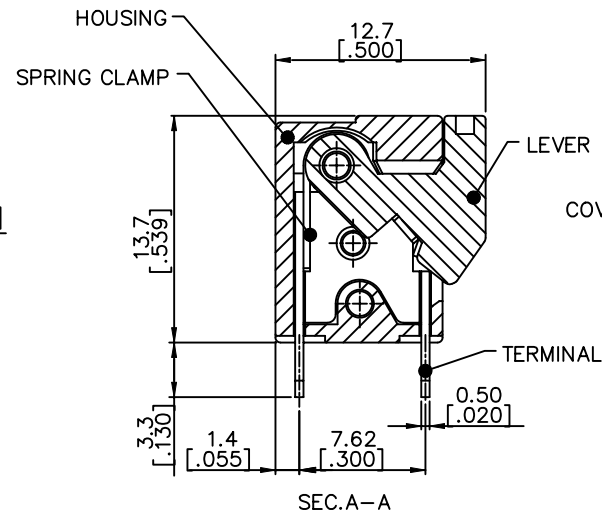
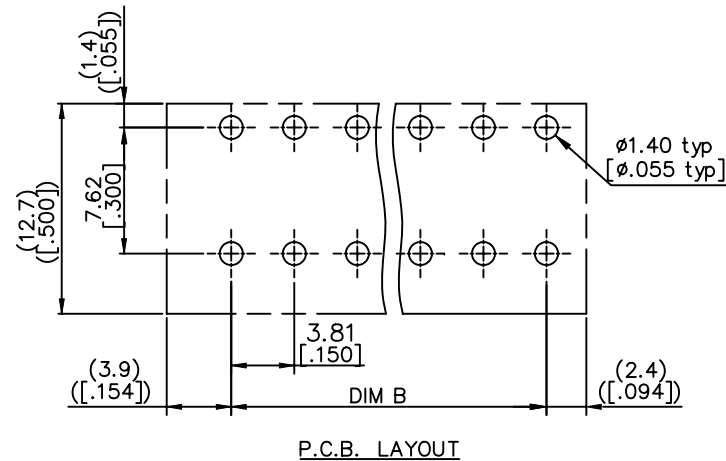
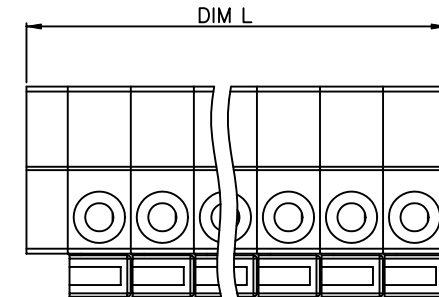
## 6. RECOMMENDED SOLDERING PROCESS BY WAVE SOLDER.

|             |          |    |        |                                       |                         |                                                                                                     |                                        |
|-------------|----------|----|--------|---------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------|
| mat'l. code |          |    |        | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection<br> | product family<br>TERMINAL BLOCK       |
| ltr         | ecn no   | dr | date   | tolerances unless otherwise specified |                         |                                                                                                     | title                                  |
| A           | T10-0191 | WL | 122010 | angles                                | X.±0.5                  | MM<br>[INCH]                                                                                        | TERMINAL BLOCK                         |
|             |          |    |        | tolerance                             | X.X±0.3                 |                                                                                                     | FIXED SIGNAL PLUG, VERTICAL WIRE INLET |
|             |          |    |        | X*±1"                                 | X.XX±0.1                | scale                                                                                               |                                        |
|             |          |    |        | dr                                    | WENDY CHEN              | 110910                                                                                              | dwg no                                 |
|             |          |    |        | enrg                                  | JASON HSU               | 110910                                                                                              | sheet 1 of 4 size                      |
|             |          |    |        | chr                                   | JASON HSU               | 110910                                                                                              | 20020302                               |
|             |          |    |        | appd                                  | JASON HSU               | 110910                                                                                              | A4                                     |
| sheet index | revision | A  | A      | A                                     | A                       |                                                                                                     | type                                   |
|             | sheet    | 1  | 2      | 3                                     | 4                       |                                                                                                     | CUSTOMER Drawing                       |

| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020302-DXXXXXXLF | 09-381      | 3.81 mm |

N = Number of poles  
Dim L =  $(N \times 3.81 [.150]) + 2.50 [.098]$   
Dim B =  $(N - 1) \times 3.81 [.150]$

| POLES  | Dim L             | Dim B             |
|--------|-------------------|-------------------|
| 2-6p   | $\pm 0.15 [.006]$ | $\pm 0.10 [.004]$ |
| 7-12p  | $\pm 0.20 [.008]$ | $\pm 0.20 [.008]$ |
| 13-18p | $\pm 0.30 [.012]$ | $\pm 0.25 [.010]$ |
| 19-24p | $\pm 0.40 [.016]$ | $\pm 0.30 [.012]$ |

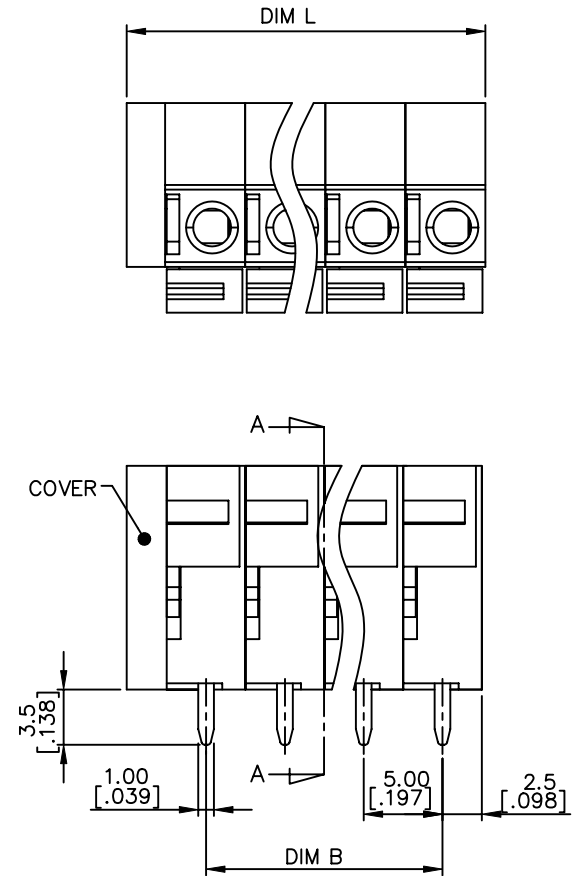
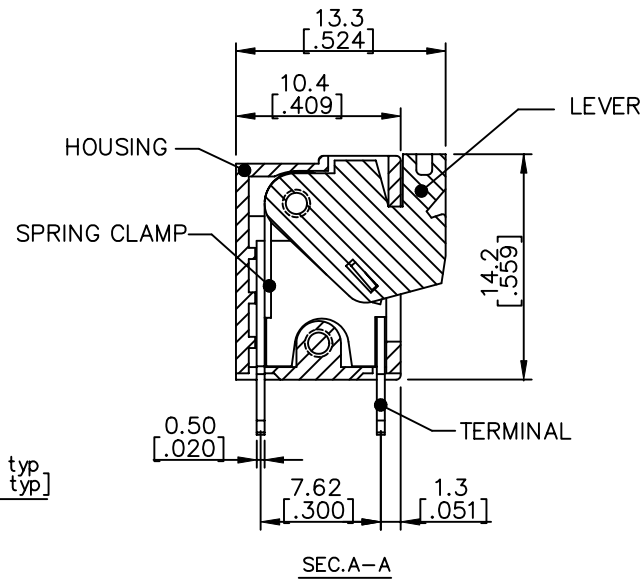
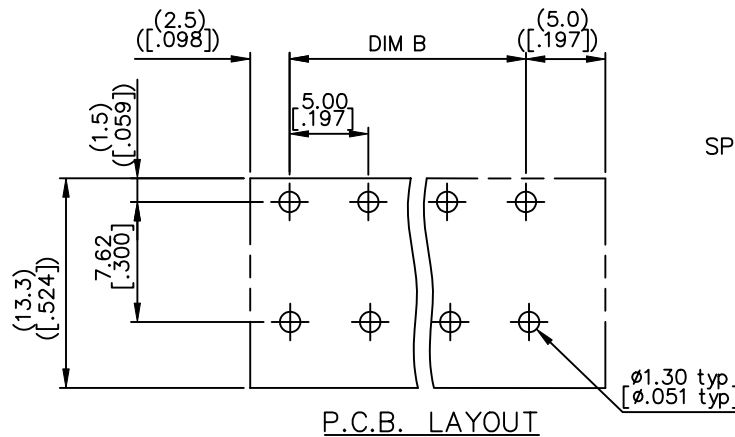


|                    |                |  |  |                                       |                         |                |                                        |
|--------------------|----------------|--|--|---------------------------------------|-------------------------|----------------|----------------------------------------|
| mat'l. code        |                |  |  | surface<br>ASME Y14.5 ✓               | tolerance<br>ASME Y14.5 | projection<br> | product family<br>TERMINAL BLOCK       |
| ltr ecn no dr date |                |  |  | tolerances unless otherwise specified |                         |                | title                                  |
| A                  |                |  |  | angles<br>X°±1'                       | lineal<br>X.X±0.3       | MM<br>[INCH]   | TERMINAL BLOCK                         |
|                    |                |  |  |                                       | X.XX±0.1                | scale          | FIXED SIGNAL PLUG, VERTICAL WIRE INLET |
|                    |                |  |  | dr                                    | WENDY CHEN              | 110910         | dwg no                                 |
|                    |                |  |  | enr                                   | JASON HSU               | 110910         | sheet 2 of 4 size                      |
|                    |                |  |  | chr                                   | JASON HSU               | 110910         | 20020302 A4                            |
|                    |                |  |  | appd                                  | JASON HSU               | 110910         | type                                   |
|                    |                |  |  |                                       |                         |                | CUSTOMER Drawing                       |
| sheet index        | revision sheet |  |  |                                       |                         |                |                                        |

| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020302-GXXXXXXLF | 09-500      | 5.00 mm |

N = Number of poles  
Dim L =  $(N \times 5.0 [.197]) + 2.54 [.100]$   
Dim B =  $(N - 1) \times 5.0 [.197]$

| POLES  | Dim L             | Dim B             |
|--------|-------------------|-------------------|
| 2-6p   | $\pm 0.15 [.006]$ | $\pm 0.10 [.004]$ |
| 7-12p  | $\pm 0.20 [.008]$ | $\pm 0.20 [.008]$ |
| 13-18p | $\pm 0.30 [.012]$ | $\pm 0.25 [.010]$ |
| 19-24p | $\pm 0.40 [.016]$ | $\pm 0.30 [.012]$ |

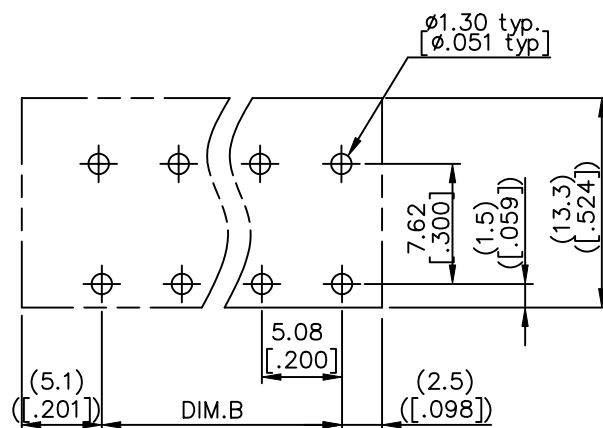


|                    |  |  |  |                                       |                         |                            |                                        |
|--------------------|--|--|--|---------------------------------------|-------------------------|----------------------------|----------------------------------------|
| mat'l. code        |  |  |  | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection<br>MM<br>[INCH] | product family<br>TERMINAL BLOCK       |
| ltr ecn no dr date |  |  |  | tolerances unless otherwise specified |                         |                            | title                                  |
| A                  |  |  |  | angles                                | X.±0.5<br>X.X±0.3       | MM<br>[INCH]               | TERMINAL BLOCK                         |
|                    |  |  |  | X*±1*                                 | X.XX±0.1                | scale                      | FIXED SIGNAL PLUG, VERTICAL WIRE INLET |
|                    |  |  |  | dr                                    | WENDY CHEN              | 110910                     | dwg no                                 |
|                    |  |  |  | enr                                   | JASON HSU               | 110910                     | sheet 3 of 4                           |
|                    |  |  |  | chr                                   | JASON HSU               | 110910                     | size                                   |
|                    |  |  |  | appd                                  | JASON HSU               | 110910                     | A4                                     |
| sheet index        |  |  |  | revision                              | sheet                   |                            | type                                   |
|                    |  |  |  |                                       |                         |                            | CUSTOMER Drawing                       |

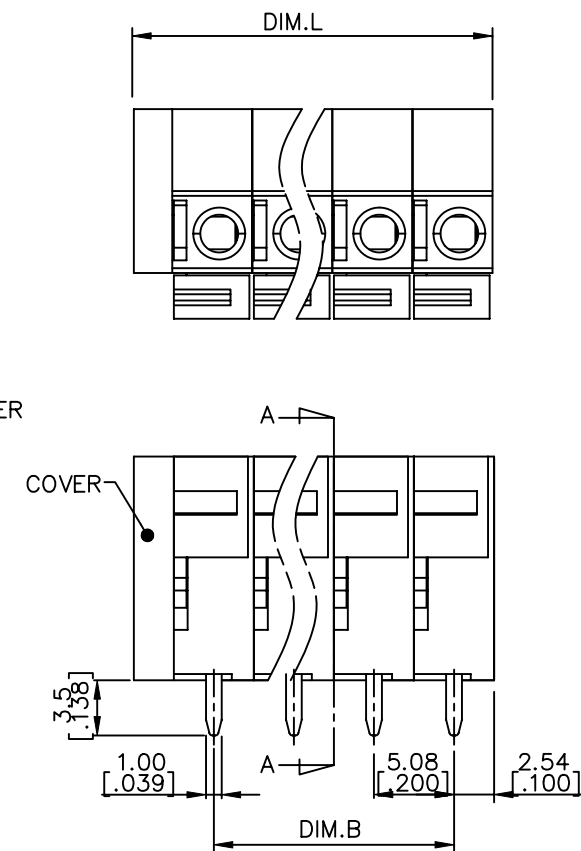
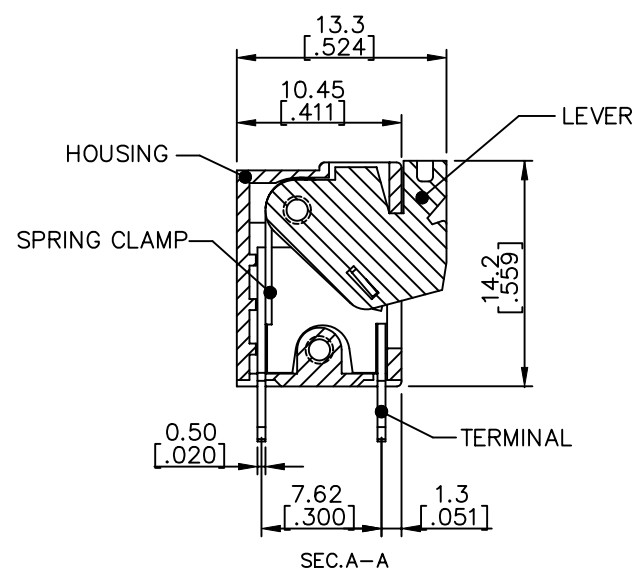
| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020302-HXXXXXXLF | 09-508      | 5.08 mm |

N = Number of poles  
Dim L =  $(N \times 5.08 [.200]) + 2.54 [.100]$   
Dim B =  $(N - 1) \times 5.08 [.200]$

| POLES  | Dim L             | Dim B             |
|--------|-------------------|-------------------|
| 2-6p   | $\pm 0.15 [.006]$ | $\pm 0.10 [.004]$ |
| 7-12p  | $\pm 0.20 [.008]$ | $\pm 0.20 [.008]$ |
| 13-18p | $\pm 0.30 [.012]$ | $\pm 0.25 [.010]$ |
| 19-24p | $\pm 0.40 [.016]$ | $\pm 0.30 [.012]$ |



P.C.B. LAYOUT



|             |                |    |      |                       |                                                          |                            |                                                          |
|-------------|----------------|----|------|-----------------------|----------------------------------------------------------|----------------------------|----------------------------------------------------------|
| mat'l. code |                |    |      | surface<br>ASME Y14.5 | tolerance<br>ASME Y14.5                                  | projection<br>MM<br>[INCH] | product family<br>TERMINAL BLOCK                         |
| ltr         | ecn            | no | dr   | date                  | tolerances unless otherwise specified                    |                            | title                                                    |
| A           |                |    |      |                       | angles<br>X $\pm$ 0.5<br>X.X $\pm$ 0.3<br>X.XX $\pm$ 0.1 | scale                      | TERMINAL BLOCK<br>FIXED SIGNAL PLUG, VERTICAL WIRE INLET |
|             |                |    | dr   | WENDY CHEN            | 110910                                                   |                            | dwg no                                                   |
|             |                |    | enr  | JASON HSU             | 110910                                                   |                            | sheet 4 of 4 size                                        |
|             |                |    | chr  | JASON HSU             | 110910                                                   |                            | 20020302 A4                                              |
|             |                |    | appd | JASON HSU             | 110910                                                   |                            | type                                                     |
| sheet index | revision sheet |    |      |                       |                                                          |                            | CUSTOMER Drawing                                         |