

PRODUCT NUMBER

20020303-XXXXXXLF

20020303-□□□□B0□LF

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

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                        |          |  |                    |                    |

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 |

## NOTES:

## 1. MATERIALS

- 1-1 TERMINAL BODY: THERMALPLASTIC RESIN, UL 94V-0 RATED.
- 1-2 TERMINAL COVER: THERMALPLASTIC RESIN, UL 94V-0 RATED.
- 1-3 TERMINAL LEVER: THERMALPLASTIC RESIN, UL 94V-0 RATED.
- 1-5 TERMINAL: COPPER ALLOY, TIN PLATED.
- 1-6 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.

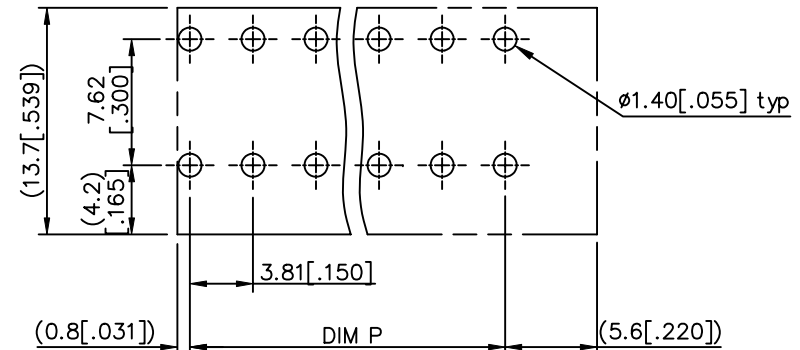
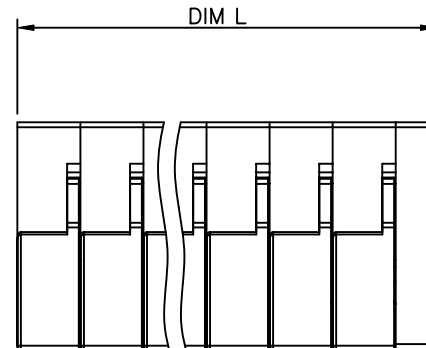
## 6. RECOMMENDED SOLDERING PROCESS BY WAVE SOLDER.

| mat'l. code |          |    |        | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection                                                                            | product family                                              |
|-------------|----------|----|--------|---------------------------------------|-------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------|
|             |          |    |        | tolerances unless otherwise specified |                         |  | TERMINAL BLOCK                                              |
| ltr         | ecn no   | dr | date   | angles                                | tolerance               | MM<br>[INCH]                                                                          | title                                                       |
| A           | T10-0191 | WL | 122010 | X±1°                                  | X.±0.5                  |  | TERMINAL BLOCK<br>FIXED SIGNAL PLUG, RIGHT ANGLE WIRE INLET |
| B           | T11-0012 | WL | 021711 |                                       | X.X±0.3                 |                                                                                       |                                                             |
| C           | T-005281 | WL | 082311 |                                       | X.XX±0.1                |                                                                                       |                                                             |
|             |          |    |        | dr                                    | WENDY CHEN              | 110910                                                                                | dwg no<br>20020303<br>A4                                    |
|             |          |    |        | enr                                   | JASON HSU               | 110910                                                                                |                                                             |
|             |          |    |        | chr                                   | JASON HSU               | 110910                                                                                |                                                             |
|             |          |    |        | appd                                  | JASON HSU               | 110910                                                                                |                                                             |
| sheet index | revision | C  | C      | C                                     | C                       |                                                                                       | type                                                        |
|             | sheet    | 1  | 2      | 3                                     | 4                       |                                                                                       | CUSTOMER Drawing                                            |

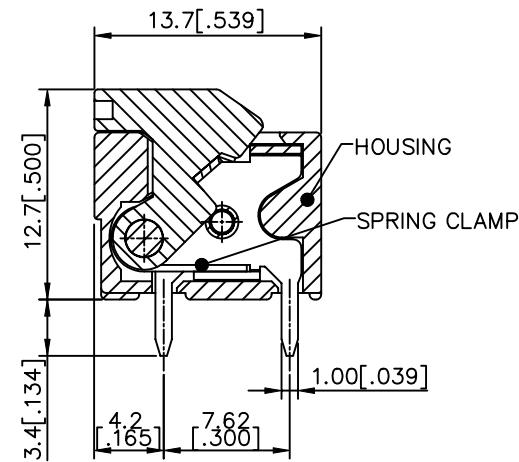
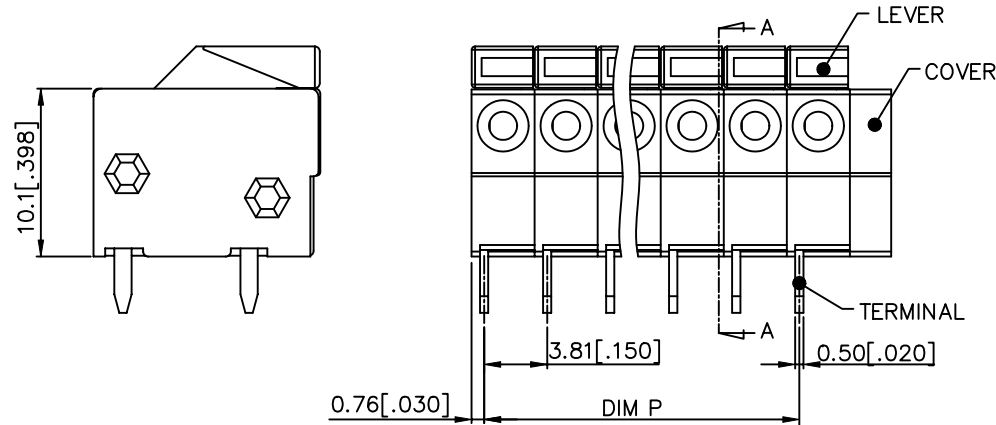
| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020303-DXXXXXXLF | 09-381      | 3.81 mm |

N = Number of poles  
 Dim L =  $N \times 3.81[.150] + 2.5[.098]$   
 Dim P =  $(N-1) \times 3.81[.150]$

| POLES  | Dim L            | Dim P            |
|--------|------------------|------------------|
| 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



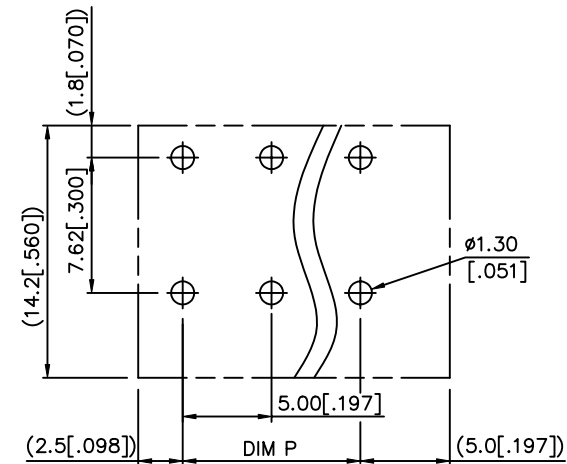
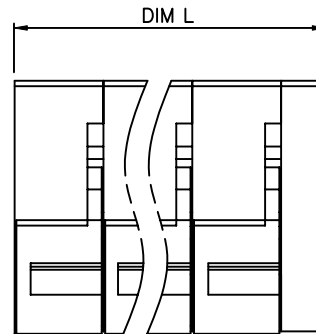
SEC. A-A

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

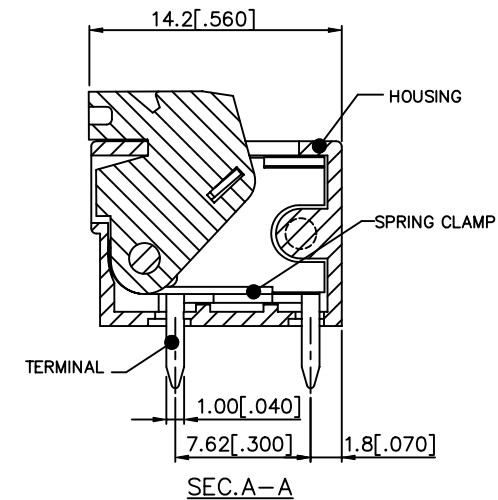
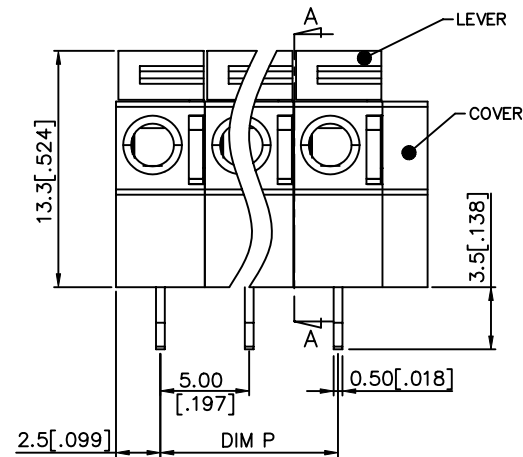
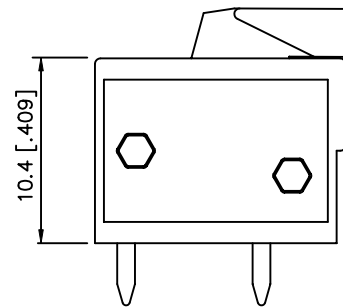
| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020303-GXXXXXXLF | 09-500      | 5.00 mm |

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

| POLES  | Dim L            | Dim P            |
|--------|------------------|------------------|
| 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



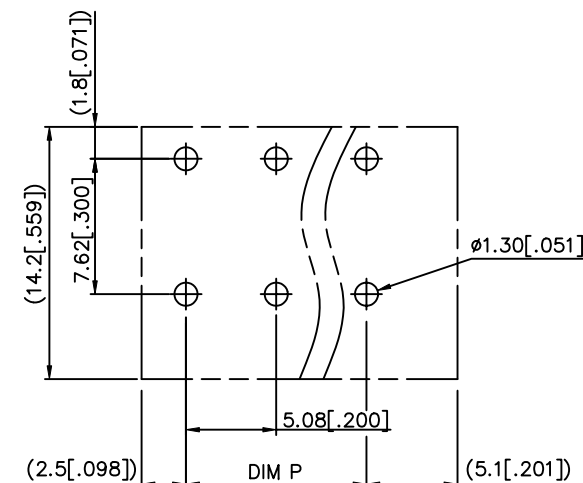
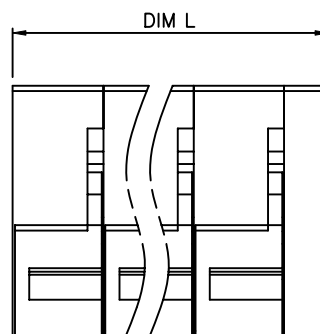
SEC. A-A

|             |     |                |    |                       |            |                         |        |                                                                                                     |                                                                                       |                                                                                       |          |                |                  |  |      |  |
|-------------|-----|----------------|----|-----------------------|------------|-------------------------|--------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|----------------|------------------|--|------|--|
| 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                  |            |                         |        |                                                                                                     |                                                                                       | title                                                                                 |          |                |                  |  |      |  |
| C           |     |                |    | angles                |            | linear                  |        | X.±0.5                                                                                              |                                                                                       |  |          | TERMINAL BLOCK |                  |  |      |  |
|             |     |                |    |                       |            | X.X±0.3                 |        | FIXED SIGNAL PLUG, RIGHT ANGLE WIRE INLET                                                           |                                                                                       |                                                                                       |          |                |                  |  |      |  |
|             |     |                |    | X'±1°                 |            | X.XX±0.1                |        | scale                                                                                               |                                                                                       |                                                                                       |          |                |                  |  |      |  |
|             |     |                |    | dr                    | WENDY CHEN |                         | 110910 |                                                                                                     |  |                                                                                       | dwg no   |                | sheet 3 of 4     |  | size |  |
|             |     |                |    | enr                   | JASON HSU  |                         | 110910 |                                                                                                     |                                                                                       |                                                                                       | 20020303 |                | A4               |  |      |  |
|             |     |                |    | chr                   | JASON HSU  |                         | 110910 |                                                                                                     |                                                                                       |                                                                                       |          |                |                  |  |      |  |
|             |     |                |    | appd                  | JASON HSU  |                         | 110910 |                                                                                                     |                                                                                       |                                                                                       |          |                |                  |  |      |  |
| sheet index |     | revision sheet |    |                       |            |                         |        |                                                                                                     |                                                                                       |                                                                                       | type     |                | CUSTOMER Drawing |  |      |  |
|             |     |                |    |                       |            |                         |        |                                                                                                     |                                                                                       |                                                                                       |          |                |                  |  |      |  |

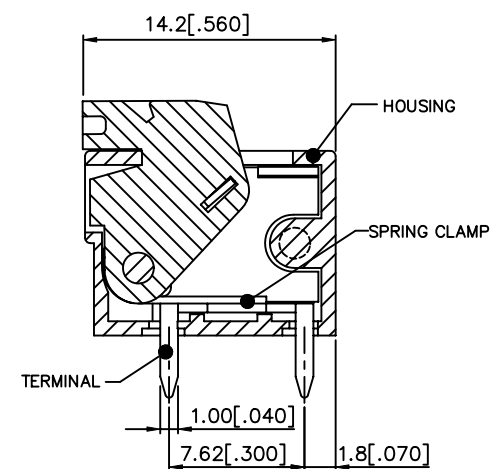
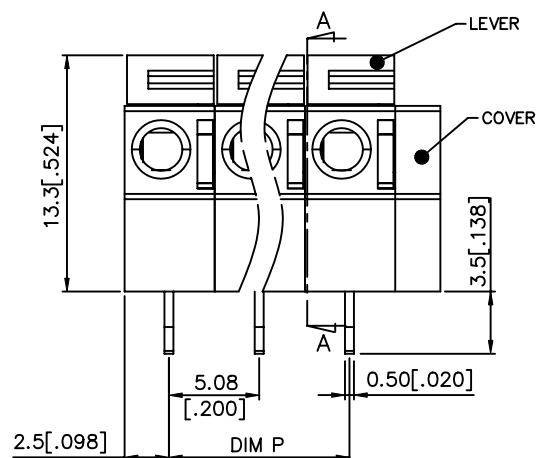
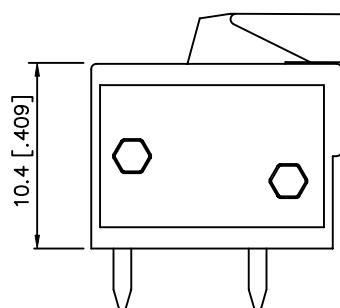
| PRODUCT NUMBER     | SERIES NAME | PITCH   |
|--------------------|-------------|---------|
| 20020303-HXXXXXXLF | 09-508      | 5.08 mm |

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

| POLES  | Dim L               | Dim P               |
|--------|---------------------|---------------------|
| 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



SEC. A-A

|             |          |    |      |                       |                         |                |                                  |                                                             |
|-------------|----------|----|------|-----------------------|-------------------------|----------------|----------------------------------|-------------------------------------------------------------|
| 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                  |                         |                |                                  | title                                                       |
| C           |          |    |      |                       |                         |                |                                  | TERMINAL BLOCK<br>FIXED SIGNAL PLUG, RIGHT ANGLE WIRE INLET |
|             |          |    |      | angles                | $X \pm 0.5$             | MM<br>[INCH]   |                                  |                                                             |
|             |          |    |      |                       | $X.X \pm 0.3$           |                |                                  |                                                             |
|             |          |    |      | $X \pm 1^\circ$       | $X.XX \pm 0.1$          | scale          |                                  |                                                             |
|             |          |    | dr   | WENDY CHEN            | 110910                  |                |                                  |                                                             |
|             |          |    | enr  | JASON HSU             | 110910                  |                |                                  |                                                             |
|             |          |    | chr  | JASON HSU             | 110910                  |                |                                  |                                                             |
|             |          |    | appd | JASON HSU             | 110910                  |                |                                  |                                                             |
| sheet       | revision |    |      |                       |                         |                | dwg no                           | sheet 4 of 4 size                                           |
| index       | sheet    |    |      |                       |                         |                | 20020303                         | A4                                                          |
|             |          |    |      |                       |                         |                | type                             | CUSTOMER Drawing                                            |