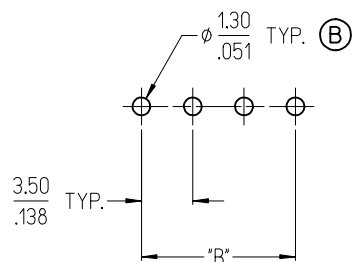
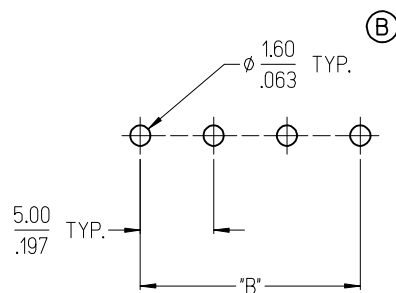


10 9 8 7 6 5 4 3 2 39501

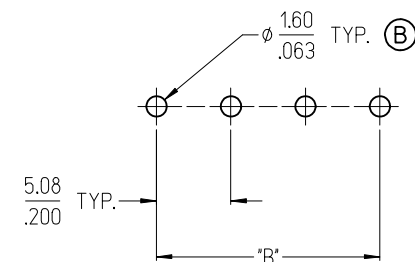
### 3950X SERIES 3.50mm HEADERS



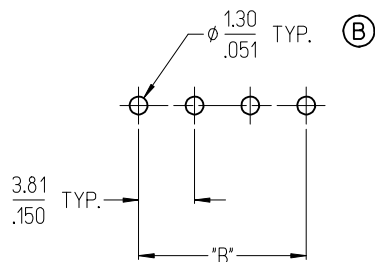
### 3952X & 3954X SERIES 5.00mm HEADERS 5.00mm FIXED



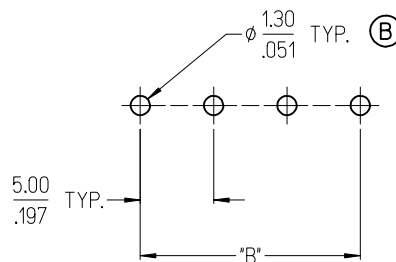
### 3953X SERIES 5.08mm HEADERS



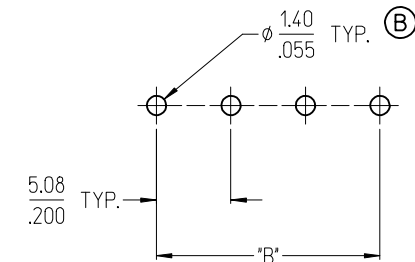
### 3951X SERIES 3.81mm HEADERS



### 3954X SERIES 5.00mm FIXED



### 3954X SERIES 5.08mm FIXED



#### NOTES:

- REFER TO INDIVIDUAL PRODUCT SALES DRAWINGS FOR "B" DIMENSION.
- DOES NOT APPLY TO DUAL LEVEL HEADERS, SERIES 39528 AND 39538.
- TYP. = TYPICAL.

| TOLERANCES |       |           |       |
|------------|-------|-----------|-------|
| MM         | TOL   | INCH      | TOL   |
| 0-6        | ±0.25 | 0-.24     | ±.010 |
| >6-30      | ±0.40 | .24-1.18  | ±.016 |
| >30-120    | ±0.50 | 1.18-4.76 | ±.020 |
| >120       | ±0.80 | >4.76     | ±.031 |

#### REVISED DOC TOL

EC NO: IFC2017-0881

DRWING:VBAUTHKARP 2017/03/23

CHKD: APPR:BRUPERT 2017/04/18

B1

#### QUALITY SYMBOLS



#### GENERAL TOLERANCES (UNLESS SPECIFIED)

|          | mm   | INCH |
|----------|------|------|
| 4 PLACES | ±--- | ±--- |
| 3 PLACES | ±--- | ±--- |
| 2 PLACES | ±--- | ±--- |
| 1 PLACE  | ±--- | ±--- |
| ANGULAR  | ±--- | °    |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

#### DIMENSION STYLE

| MM/IN        | DATE       |
|--------------|------------|
| DRAWN BY     | C. YORK    |
| CHECKED BY   | J. MACNEIL |
| APPROVED BY  | J. MACNEIL |
| MATERIAL NO. | --         |

#### SCALE

#### DESIGN UNITS

#### THIRD ANGLE PROJECTION

RECOMMENDED PCB LAYOUT  
FOR ESE TERMINAL BLOCKS



MOLEX INCORPORATED

#### DOCUMENT NO.

SD-39501-002

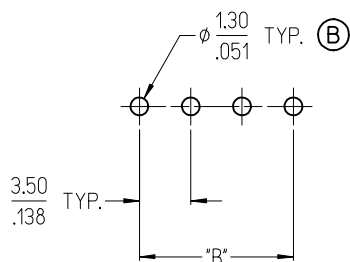
#### SHEET NO.

1 OF 1

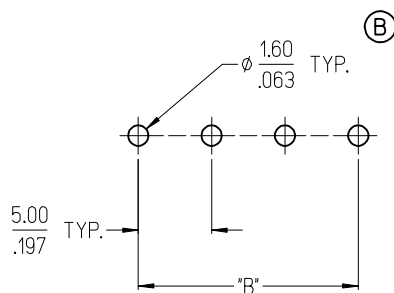
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

10 9 8 7 6 5 4 3 2 39501

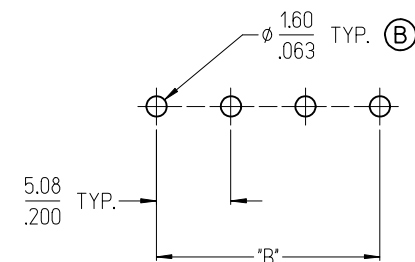
### 3950X SERIES 3.50mm HEADERS



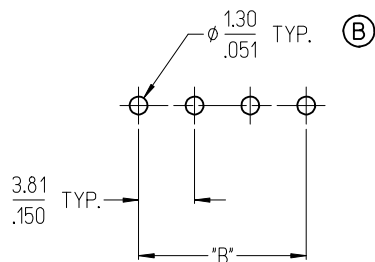
### 3952X & 3954X SERIES 5.00mm HEADERS 5.00mm FIXED



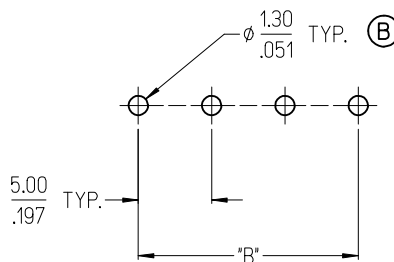
### 3953X SERIES 5.08mm HEADERS



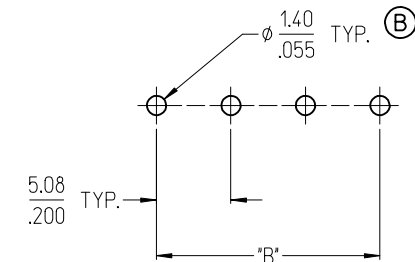
### 3951X SERIES 3.81mm HEADERS



### 3954X SERIES 5.00mm FIXED



### 3954X SERIES 5.08mm FIXED



#### NOTES:

- REFER TO INDIVIDUAL PRODUCT SALES DRAWINGS FOR "B" DIMENSION.
- DOES NOT APPLY TO DUAL LEVEL HEADERS, SERIES 39528 AND 39538.
- TYP. = TYPICAL.

| TOLERANCES |       |           |       |
|------------|-------|-----------|-------|
| MM         | TOL   | INCH      | TOL   |
| 0-6        | ±0.25 | 0-.24     | ±.010 |
| >6-30      | ±0.40 | .24-1.18  | ±.016 |
| >30-120    | ±0.50 | 1.18-4.76 | ±.020 |
| >120       | ±0.80 | >4.76     | ±.031 |

#### REVISED DOC TOL

EC NO: IFC2017-0881

DRWING:VBAUTHKARP 2017/03/23

CHKD: APPR:BRUPERT 2017/04/18

B1

#### QUALITY SYMBOLS



#### GENERAL TOLERANCES (UNLESS SPECIFIED)

|          | mm    | INCH |
|----------|-------|------|
| 4 PLACES | ±---  | ±--- |
| 3 PLACES | ±---  | ±--- |
| 2 PLACES | ±---  | ±--- |
| 1 PLACE  | ±---  | ±--- |
| ANGULAR  | ±---° |      |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

#### DIMENSION STYLE

| MM/IN        | DATE       |
|--------------|------------|
| DRAWN BY     | C. YORK    |
| CHECKED BY   | J. MACNEIL |
| APPROVED BY  | J. MACNEIL |
| MATERIAL NO. | --         |

#### SCALE

#### DESIGN UNITS

#### THIRD ANGLE PROJECTION

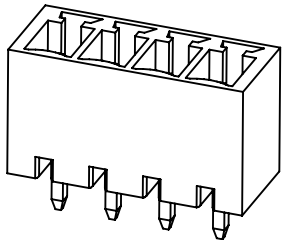
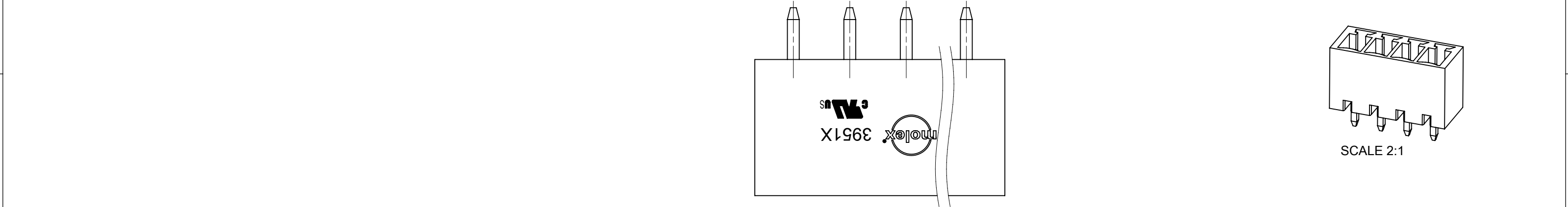
RECOMMENDED PCB LAYOUT  
FOR ESE TERMINAL BLOCKS

**MOLEX INCORPORATED**

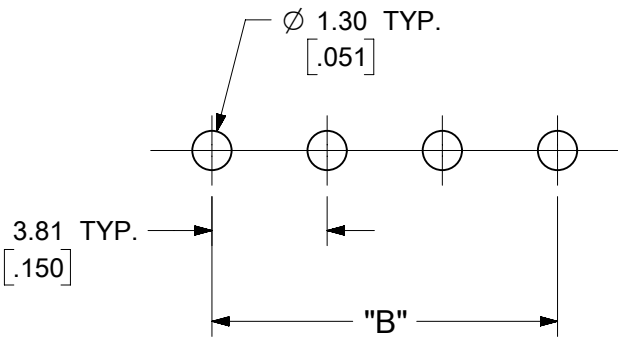
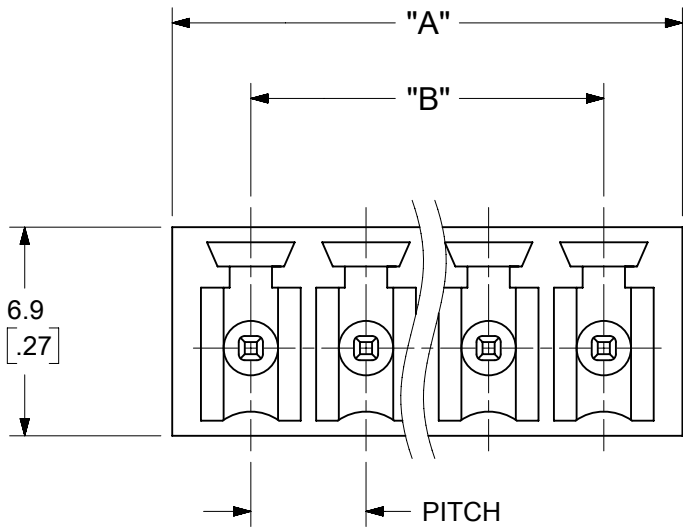
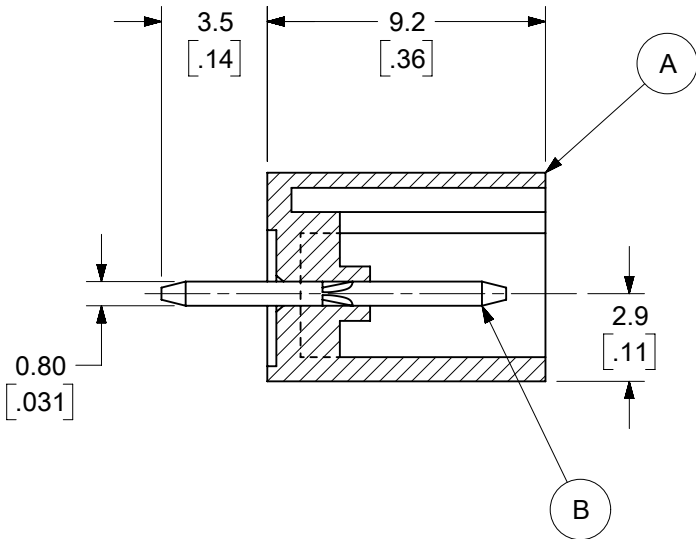
DOCUMENT NO.  
**SD-39501-002**

SHEET NO.  
**1 OF 1**

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



SCALE 2:1



PCB LAYOUT

- SPECIFICATIONS:
- MATERIAL:  
(A). BODY: PA66  
(B). TERMINAL: BRASS
  - WIRE RANGE: N/A
  - ELECTRICAL RATING: 300V, 8A.
  - MAX TORQUE: N/A.
  - WIRE STRIP LENGTH: N/A.
  - OPERATING TEMPERATURE: -40°C to +105°C.
  - $A = (N \times P) + 1.39\text{MM}$
  - $B = (N - 1) \times P$
  - $P \text{ (PITCH)} = 3.81\text{MM} \text{ (.150")}$ .
  - $N = \text{NUMBER OF POSITIONS AVAILABLE 2 THROUGH 20.}$

| TOLERANCES |       |           |       |
|------------|-------|-----------|-------|
| MM         | TOL   | INCH      | TOL   |
| 0-6        | ±0.25 | 0-.24     | ±.010 |
| >6-30      | ±0.40 | .24-1.18  | ±.016 |
| >30-120    | ±0.50 | 1.18-4.76 | ±.020 |
| >120       | ±0.80 | >4.76     | ±.031 |

| SYMBOLS                                                                                                                                                      |                                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| $\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$ | DIMENSION UNITS<br><b>MM/INCH</b>                    | SCALE<br><b>4:1</b>                                                                                                                           |                                                                                                           |
|                                                                                                                                                              |                                                      | CURRENT REV DESC: MIGRATION TO ECTR/NX                                                                                                        |                                                                                                           |
|                                                                                                                                                              | GENERAL TOLERANCES (UNLESS SPECIFIED)                |                                                                                                                                               | EC NO: 619929<br>DRWN: ABENJAMINLW 2019/06/17<br>CHK'D: DACHAMMER 2019/07/01<br>APPR: JFMURPHY 2019/07/08 |
|                                                                                                                                                              |                                                      | MM                                                                                                                                            | INCH                                                                                                      |
|                                                                                                                                                              | 4 PLACES                                             | ±                                                                                                                                             | ±                                                                                                         |
|                                                                                                                                                              | 3 PLACES                                             | ±                                                                                                                                             | ± SEE CHART                                                                                               |
|                                                                                                                                                              | 2 PLACES                                             | ±                                                                                                                                             | ± SEE CHART                                                                                               |
|                                                                                                                                                              | 1 PLACE                                              | ±                                                                                                                                             | ±                                                                                                         |
|                                                                                                                                                              | 0 PLACES                                             | ±                                                                                                                                             | ±                                                                                                         |
|                                                                                                                                                              | ANGULAR TOL                                          |                                                                                                                                               | ± °                                                                                                       |
|                                                                                                                                                              | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                                                                                                                                               | THIRD ANGLE PROJECTION                                                                                    |
|                                                                                                                                                              |                                                      |                                                                                                                                               | DRAWING                                                                                                   |
|                                                                                                                                                              |                                                      |                                                                                                                                               | SERIES                                                                                                    |
|                                                                                                                                                              |                                                      |                                                                                                                                               | MATERIAL NUMBER                                                                                           |
|                                                                                                                                                              |                                                      |                                                                                                                                               | CUSTOMER                                                                                                  |
|                                                                                                                                                              |                                                      |                                                                                                                                               | SHEET NUMBER                                                                                              |

**moLEX**

3.81MM, EURO HEADER  
VERTICAL, CLOSED END

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|-----------------|----------|----------|----------|
| SD-39511-001    | PSD      | 001      | B2       |

|             |                |        |
|-------------|----------------|--------|
| SEE SHEET-2 | GENERAL MARKET | 1 OF 2 |
|-------------|----------------|--------|

|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|-----------------|--|-------------------------------|------------------|------------------|-----------|------------------|------------|-----------|------------------|-----------|-----------|------------------|------------|-----------|-----------|-------------------------|----------|-------|-------|------|--|
| 10              |  | 9                             |                  | 8                |           | 7                |            | 6         |                  | 5         |           | 4                |            | 3         |           | 2                       |          | 1     |       |      |  |
| F               |  |                               |                  | MATERIAL NUMBERS |           |                  |            |           |                  |           |           |                  |            |           |           | DIMENSIONAL INFORMATION |          |       |       |      |  |
|                 |  |                               |                  | BLACK            |           |                  |            |           |                  | GREEN     |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  | 100% TIN         |           |                  | 30 u" GOLD |           |                  | 100% TIN  |           |                  | 30 u" GOLD |           |           |                         |          |       |       |      |  |
| E               |  | CIRCUIT SIZE                  | PRINTING OPTIONS |                  |           | PRINTING OPTIONS |            |           | PRINTING OPTIONS |           |           | PRINTING OPTIONS |            |           | DIM. "A"  |                         | DIM. "B" |       |       |      |  |
|                 |  |                               | DESCRIPTION      |                  | None      | 10AV             | 11AV       | None      | 10AV             | 11AV      | None      | 10AV             | 11AV       | None      | 10AV      | 11AV                    | mm       | inch  | mm    | inch |  |
| D               |  | 3.81MM, EURO HEADER, VERTICAL | 2                | 395111002        | 395111302 | 395111402        | 395111502  | 395111802 | 395111902        | 395116002 | 395116302 | 395116402        | 395116502  | 395116802 | 395116902 | 9.01                    | .355     | 3.81  | .150  |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 3                | 395111003        | 395111303 | 395111403        | 395111503  | 395111803 | 395111903        | 395116003 | 395116303 | 395116403        | 395116503  | 395116803 | 395116903 | 12.82                   | .505     | 7.62  | .300  |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 4                | 395111004        | 395111304 | 395111404        | 395111504  | 395111804 | 395111904        | 395116004 | 395116304 | 395116404        | 395116504  | 395116804 | 395116904 | 16.63                   | .655     | 11.43 | .450  |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 5                | 395111005        | 395111305 | 395111405        | 395111505  | 395111805 | 395111905        | 395116005 | 395116305 | 395116405        | 395116505  | 395116805 | 395116905 | 20.44                   | .805     | 15.24 | .600  |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 6                | 395111006        | 395111306 | 395111406        | 395111506  | 395111806 | 395111906        | 395116006 | 395116306 | 395116406        | 395116506  | 395116806 | 395116906 | 24.25                   | .955     | 19.05 | .750  |      |  |
| C               |  | 3.81MM, EURO HEADER, VERTICAL | 7                | 395111007        | 395111307 | 395111407        | 395111507  | 395111807 | 395111907        | 395116007 | 395116307 | 395116407        | 395116507  | 395116807 | 395116907 | 28.06                   | 1.105    | 22.86 | .900  |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 8                | 395111008        | 395111308 | 395111408        | 395111508  | 395111808 | 395111908        | 395116008 | 395116308 | 395116408        | 395116508  | 395116808 | 395116908 | 31.87                   | 1.255    | 26.67 | 1.050 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 9                | 395111009        | 395111309 | 395111409        | 395111509  | 395111809 | 395111909        | 395116009 | 395116309 | 395116409        | 395116509  | 395116809 | 395116909 | 35.68                   | 1.405    | 30.48 | 1.200 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 10               | 395111010        | 395111310 | 395111410        | 395111510  | 395111810 | 395111910        | 395116010 | 395116310 | 395116410        | 395116510  | 395116810 | 395116910 | 39.49                   | 1.555    | 34.29 | 1.350 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 11               | 395111011        | 395111311 | 395111411        | 395111511  | 395111811 | 395111911        | 395116011 | 395116311 | 395116411        | 395116511  | 395116811 | 395116911 | 43.30                   | 1.705    | 38.10 | 1.500 |      |  |
| B               |  | 3.81MM, EURO HEADER, VERTICAL | 12               | 395111012        | 395111312 | 395111412        | 395111512  | 395111812 | 395111912        | 395116012 | 395116312 | 395116412        | 395116512  | 395116812 | 395116912 | 47.11                   | 1.855    | 41.91 | 1.650 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 13               | 395111013        | 395111313 | 395111413        | 395111513  | 395111813 | 395111913        | 395116013 | 395116313 | 395116413        | 395116513  | 395116813 | 395116913 | 50.92                   | 2.005    | 45.72 | 1.800 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 14               | 395111014        | 395111314 | 395111414        | 395111514  | 395111814 | 395111914        | 395116014 | 395116314 | 395116414        | 395116514  | 395116814 | 395116914 | 54.73                   | 2.155    | 49.53 | 1.950 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 15               | 395111015        | 395111315 | 395111415        | 395111515  | 395111815 | 395111915        | 395116015 | 395116315 | 395116415        | 395116515  | 395116815 | 395116915 | 58.54                   | 2.305    | 53.34 | 2.100 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 16               | 395111016        | 395111316 | 395111416        | 395111516  | 395111816 | 395111916        | 395116016 | 395116316 | 395116416        | 395116516  | 395116816 | 395116916 | 62.35                   | 2.455    | 57.15 | 2.250 |      |  |
| A               |  | 3.81MM, EURO HEADER, VERTICAL | 17               | 395111017        | 395111317 | 395111417        | 395111517  | 395111817 | 395111917        | 395116017 | 395116317 | 395116417        | 395116517  | 395116817 | 395116917 | 66.16                   | 2.605    | 60.96 | 2.400 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 18               | 395111018        | 395111318 | 395111418        | 395111518  | 395111818 | 395111918        | 395116018 | 395116318 | 395116418        | 395116518  | 395116818 | 395116918 | 69.97                   | 2.755    | 64.77 | 2.550 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 19               | 395111019        | 395111319 | 395111419        | 395111519  | 395111819 | 395111919        | 395116019 | 395116319 | 395116419        | 395116519  | 395116819 | 395116919 | 73.78                   | 2.905    | 68.58 | 2.700 |      |  |
|                 |  | 3.81MM, EURO HEADER, VERTICAL | 20               | 395111020        | 395111320 | 395111420        | 395111520  | 395111820 | 395111920        | 395116020 | 395116320 | 395116420        | 395116520  | 395116820 | 395116920 | 77.59                   | 3.055    | 72.39 | 2.850 |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
| DOCUMENT STATUS |  | P1                            | RELEASE DATE     | 2019/07/08       | 15:51:05  | TOLERANCES       |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           | MM               | TOL        | INCH      | TOL              |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           | 0-6              | ±0.25      | 0-.24     | ±.010            |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           | >6-30            | ±0.40      | .24-1.18  | ±.016            |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           | >30-120          | ±0.50      | 1.18-4.76 | ±.020            |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           | >120             | ±0.80      | >4.76     | ±.031            |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
|                 |  |                               |                  |                  |           |                  |            |           |                  |           |           |                  |            |           |           |                         |          |       |       |      |  |
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