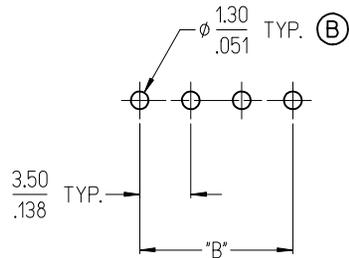
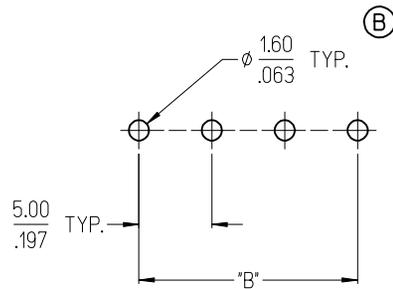


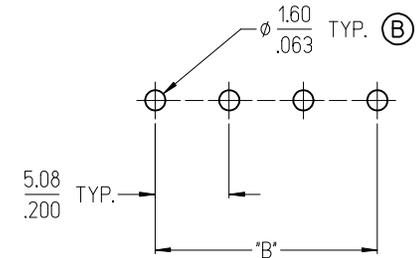
3950X SERIES  
3.50mm HEADERS



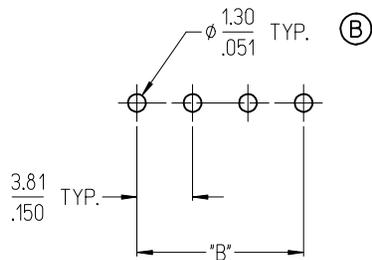
3952X & 3954X SERIES  
5.00mm HEADERS  
5.00mm FIXED



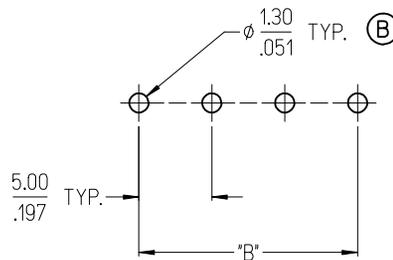
3953X SERIES  
5.08mm HEADERS



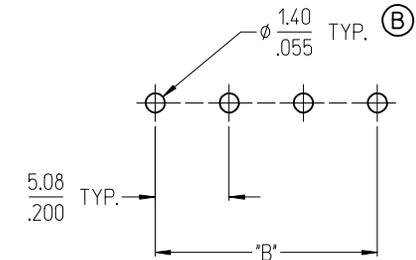
3951X SERIES  
3.81mm HEADERS



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: IPG2017-0881  
DRAWN: VASUTHKARP 2017/03/23  
CHKD:  
APPR: BRUPERT 2017/04/18  
REV DESCRIPTION

QUALITY SYMBOLS  
▽=0  
▽=0

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

| DRAWN BY    | DATE       |
|-------------|------------|
| C. YORK     | 2006/08/25 |
| CHECKED BY  | DATE       |
| J. MACNEIL  | 2006/08/25 |
| APPROVED BY | DATE       |
| J. MACNEIL  | 2006/08/25 |

MATERIAL NO. --

SCALE DESIGN UNITS INCH

THIRD ANGLE PROJECTION

RECOMMENDED PCB LAYOUT FOR ESE TERMINAL BLOCKS

**molex** 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



| Description                              | Circuit size | Material Numbers |           |           |                  |           |           | Dimensional Information |       |        |       |       |  |      |  |
|--|--------------|------------------|-----------|-----------|------------------|-----------|-----------|-------------------------|-------|--------|-------|-------|--|------|--|
|  |              | Black            |           |           |                  |           |           | Dim. A                  |       |        |       | Dim B |  |      |  |
|  |              | 100% Tin         |           |           | 30 u" Gold       |           |           |                         |       |        |       |       |  |      |  |
|  |              | Printing Options |           |           | Printing Options |           |           | mm                      |       | inch   |       | mm    |  | inch |  |
| None                                     | 10AV         | 11AV             | None      | 10AV      | 11AV             |           |           |                         |       |        |       |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 2            | 395314002        | 395314302 | 395314402 | 395314502        | 395314802 | 395314902 | 12.16                   | 0.479 | 5.08   | 0.200 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 3            | 395314003        | 395314303 | 395314403 | 395314503        | 395314803 | 395314903 | 17.24                   | 0.679 | 10.16  | 0.400 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 4            | 395314004        | 395314304 | 395314404 | 395314504        | 395314804 | 395314904 | 22.32                   | 0.879 | 15.24  | 0.600 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 5            | 395314005        | 395314305 | 395314405 | 395314505        | 395314805 | 395314905 | 27.40                   | 1.079 | 20.32  | 0.800 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 6            | 395314006        | 395314306 | 395314406 | 395314506        | 395314806 | 395314906 | 32.48                   | 1.279 | 25.40  | 1.000 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 7            | 395314007        | 395314307 | 395314407 | 395314507        | 395314807 | 395314907 | 37.56                   | 1.479 | 30.48  | 1.200 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 8            | 395314008        | 395314308 | 395314408 | 395314508        | 395314808 | 395314908 | 42.64                   | 1.679 | 35.56  | 1.400 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 9            | 395314009        | 395314309 | 395314409 | 395314509        | 395314809 | 395314909 | 47.72                   | 1.879 | 40.64  | 1.600 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 10           | 395314010        | 395314310 | 395314410 | 395314510        | 395314810 | 395314910 | 52.80                   | 2.079 | 45.72  | 1.800 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 11           | 395314011        | 395314311 | 395314411 | 395314511        | 395314811 | 395314911 | 57.88                   | 2.279 | 50.80  | 2.000 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 12           | 395314012        | 395314312 | 395314412 | 395314512        | 395314812 | 395314912 | 62.96                   | 2.479 | 55.88  | 2.200 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 13           | 395314013        | 395314313 | 395314413 | 395314513        | 395314813 | 395314913 | 68.04                   | 2.679 | 60.96  | 2.400 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 14           | 395314014        | 395314314 | 395314414 | 395314514        | 395314814 | 395314914 | 73.12                   | 2.879 | 66.04  | 2.600 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 15           | 395314015        | 395314315 | 395314415 | 395314515        | 395314815 | 395314915 | 78.20                   | 3.079 | 71.12  | 2.800 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 16           | 395314016        | 395314316 | 395314416 | 395314516        | 395314816 | 395314916 | 83.28                   | 3.279 | 76.20  | 3.000 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 17           | 395314017        | 395314317 | 395314417 | 395314517        | 395314817 | 395314917 | 88.36                   | 3.479 | 81.28  | 3.200 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 18           | 395314018        | 395314318 | 395314418 | 395314518        | 395314818 | 395314918 | 93.44                   | 3.679 | 86.36  | 3.400 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 19           | 395314019        | 395314319 | 395314419 | 395314519        | 395314819 | 395314919 | 98.52                   | 3.879 | 91.44  | 3.600 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 20           | 395314020        | 395314320 | 395314420 | 395314520        | 395314820 | 395314920 | 103.60                  | 4.079 | 96.52  | 3.800 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 21           | 395314021        | 395314321 | 395314421 | 395314521        | 395314821 | 395314921 | 108.68                  | 4.279 | 101.60 | 4.000 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 22           | 395314022        | 395314322 | 395314422 | 395314522        | 395314822 | 395314922 | 113.76                  | 4.479 | 106.68 | 4.200 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 23           | 395314023        | 395314323 | 395314423 | 395314523        | 395314823 | 395314923 | 118.84                  | 4.679 | 111.76 | 4.400 |       |  |      |  |
| 5.08mm, Euro Header, Vertical, High Temp | 24           | 395314024        | 395314324 | 395314424 | 395314524        | 395314824 | 395314924 | 123.92                  | 4.879 | 116.84 | 4.600 |       |  |      |  |

| 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 |

|   |  |  |  |       |  |  |  |                |  |              |  |
|---|--|--|--|-------|--|--|--|----------------|--|--------------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |  |  |       |  |  |  |                |  |              |  |
| SYMBOLS   |  | DIMENSION UNITS                                      |  | SCALE |  | CURRENT REV DESC: REMOVED GREEN PART NUMBERS   |  |                |  |              |  |
| ▽ = 0   |  | MM[INCH]   |  | 4:1   |  | <b>molex</b><br>5.08MM, EURO HEADER, VERTICAL, HI-TEMP<br>PRODUCT CUSTOMER DRAWING                     |  |                |  |              |  |
| ▽ = 0   |  | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  |       |  |  |  |                |  |              |  |
| ▽ = 0   |  |  |  |       |  | EC NO: 175526<br>DRWN: ABENJAMINLW 2018/04/13<br>CHK'D: BRUPERT 2018/04/24<br>APPR: BRUPERT 2018/04/25 |  |                |  |              |  |
| ▽ = 0   |  | 4 PLACES ± --- ± ---                                 |  |       |  | INITIAL REVISION:<br>DRWN: LROTHAUS 2005/12/06<br>APPR:  |  |                |  |              |  |
| ▽ = 0   |  | 3 PLACES ± --- ± ---                                 |  |       |  | DOCUMENT NUMBER<br><b>SD-39531-001</b>   |  |                |  |              |  |
| ▽ = 0   |  | 2 PLACES ± --- ± ---                                 |  |       |  | DOC TYPE   |  | DOC PART       |  | REVISION     |  |
| ▽ = 0   |  | 1 PLACE ± --- ± ---                                  |  |       |  | PSD  |  | 001            |  | A2           |  |
| ▽ = 0   |  | 0 PLACES ± --- ± ---                                 |  |       |  | MATERIAL NUMBER  |  | CUSTOMER       |  | SHEET NUMBER |  |
| □ = 0   |  | ANGULAR TOL ± ---°                                   |  |       |  | SEE CHART  |  | GENERAL MARKET |  | 2 OF 2       |  |
| ■ = 0   |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  |       |  | THIRD ANGLE PROJECTION   |  | DRAWING        |  | SERIES       |  |
| ▽ = 0   |  |  |  |       |  | B-SIZE   |  | 39531          |  |              |  |

| Description                              | Circuit<br>Size | Material Numbers |           |           |                  |           |           |                  |           |           |                  |           |           | Dimensional Information |       |        |       |
|--|-----------------|------------------|-----------|-----------|------------------|-----------|-----------|------------------|-----------|-----------|------------------|-----------|-----------|-------------------------|-------|--------|-------|
|  |                 | Black            |           |           |                  |           |           | Green            |           |           |                  |           |           |                         |       |        |       |
|  |                 | 100% Tin         |           |           | 30 u" Cold       |           |           | 100% Tin         |           |           | 30 u" Cold       |           |           | Dim. A                  |       | Dim. D |       |
|  |                 | Printing Options |           |           | Printing Options |           |           | Printing Options |           |           | Printing Options |           |           |                         |       |        |       |
| None                                     | 10AV            | 11AV             | None      | 10AV      | 11AV             | None      | 10AV      | 11AV             | None      | 10AV      | 11AV             | mm        | inch      | mm                      | inch  |        |       |
| 5.08mm, Euro Header, Vertical, High Temp | 2               | 395314002        | 395314302 | 395314402 | 395314502        | 395314802 | 395314902 | 395319002        | 395319302 | 395319402 | 395319502        | 395319802 | 395319902 | 12.16                   | 0.479 | 5.08   | 0.200 |
| 5.08mm, Euro Header, Vertical, High Temp | 3               | 395314003        | 395314303 | 395314403 | 395314503        | 395314803 | 395314903 | 395319003        | 395319303 | 395319403 | 395319503        | 395319803 | 395319903 | 17.24                   | 0.679 | 10.16  | 0.400 |
| 5.08mm, Euro Header, Vertical, High Temp | 4               | 395314004        | 395314304 | 395314404 | 395314504        | 395314804 | 395314904 | 395319004        | 395319304 | 395319404 | 395319504        | 395319804 | 395319904 | 22.32                   | 0.879 | 15.24  | 0.600 |
| 5.08mm, Euro Header, Vertical, High Temp | 5               | 395314005        | 395314305 | 395314405 | 395314505        | 395314805 | 395314905 | 395319005        | 395319305 | 395319405 | 395319505        | 395319805 | 395319905 | 27.40                   | 1.079 | 20.32  | 0.800 |
| 5.08mm, Euro Header, Vertical, High Temp | 6               | 395314006        | 395314306 | 395314406 | 395314506        | 395314806 | 395314906 | 395319006        | 395319306 | 395319406 | 395319506        | 395319806 | 395319906 | 32.48                   | 1.279 | 25.40  | 1.000 |
| 5.08mm, Euro Header, Vertical, High Temp | 7               | 395314007        | 395314307 | 395314407 | 395314507        | 395314807 | 395314907 | 395319007        | 395319307 | 395319407 | 395319507        | 395319807 | 395319907 | 37.56                   | 1.479 | 30.48  | 1.200 |
| 5.08mm, Euro Header, Vertical, High Temp | 8               | 395314008        | 395314308 | 395314408 | 395314508        | 395314808 | 395314908 | 395319008        | 395319308 | 395319408 | 395319508        | 395319808 | 395319908 | 42.64                   | 1.679 | 35.56  | 1.400 |
| 5.08mm, Euro Header, Vertical, High Temp | 9               | 395314009        | 395314309 | 395314409 | 395314509        | 395314809 | 395314909 | 395319009        | 395319309 | 395319409 | 395319509        | 395319809 | 395319909 | 47.72                   | 1.879 | 40.64  | 1.600 |
| 5.08mm, Euro Header, Vertical, High Temp | 10              | 395314010        | 395314310 | 395314410 | 395314510        | 395314810 | 395314910 | 395319010        | 395319310 | 395319410 | 395319510        | 395319810 | 395319910 | 52.80                   | 2.079 | 45.72  | 1.800 |
| 5.08mm, Euro Header, Vertical, High Temp | 11              | 395314011        | 395314311 | 395314411 | 395314511        | 395314811 | 395314911 | 395319011        | 395319311 | 395319411 | 395319511        | 395319811 | 395319911 | 57.88                   | 2.279 | 50.80  | 2.000 |
| 5.08mm, Euro Header, Vertical, High Temp | 12              | 395314012        | 395314312 | 395314412 | 395314512        | 395314812 | 395314912 | 395319012        | 395319312 | 395319412 | 395319512        | 395319812 | 395319912 | 62.96                   | 2.479 | 55.88  | 2.200 |
| 5.08mm, Euro Header, Vertical, High Temp | 13              | 395314013        | 395314313 | 395314413 | 395314513        | 395314813 | 395314913 | 395319013        | 395319313 | 395319413 | 395319513        | 395319813 | 395319913 | 68.04                   | 2.679 | 60.96  | 2.400 |
| 5.08mm, Euro Header, Vertical, High Temp | 14              | 395314014        | 395314314 | 395314414 | 395314514        | 395314814 | 395314914 | 395319014        | 395319314 | 395319414 | 395319514        | 395319814 | 395319914 | 73.12                   | 2.879 | 66.04  | 2.600 |
| 5.08mm, Euro Header, Vertical, High Temp | 15              | 395314015        | 395314315 | 395314415 | 395314515        | 395314815 | 395314915 | 395319015        | 395319315 | 395319415 | 395319515        | 395319815 | 395319915 | 78.20                   | 3.079 | 71.12  | 2.800 |
| 5.08mm, Euro Header, Vertical, High Temp | 16              | 395314016        | 395314316 | 395314416 | 395314516        | 395314816 | 395314916 | 395319016        | 395319316 | 395319416 | 395319516        | 395319816 | 395319916 | 83.28                   | 3.279 | 76.20  | 3.000 |
| 5.08mm, Euro Header, Vertical, High Temp | 17              | 395314017        | 395314317 | 395314417 | 395314517        | 395314817 | 395314917 | 395319017        | 395319317 | 395319417 | 395319517        | 395319817 | 395319917 | 88.36                   | 3.479 | 81.28  | 3.200 |
| 5.08mm, Euro Header, Vertical, High Temp | 18              | 395314018        | 395314318 | 395314418 | 395314518        | 395314818 | 395314918 | 395319018        | 395319318 | 395319418 | 395319518        | 395319818 | 395319918 | 93.44                   | 3.679 | 86.36  | 3.400 |
| 5.08mm, Euro Header, Vertical, High Temp | 19              | 395314019        | 395314319 | 395314419 | 395314519        | 395314819 | 395314919 | 395319019        | 395319319 | 395319419 | 395319519        | 395319819 | 395319919 | 98.52                   | 3.879 | 91.44  | 3.600 |
| 5.08mm, Euro Header, Vertical, High Temp | 20              | 395314020        | 395314320 | 395314420 | 395314520        | 395314820 | 395314920 | 395319020        | 395319320 | 395319420 | 395319520        | 395319820 | 395319920 | 103.60                  | 4.079 | 96.52  | 3.800 |
| 5.08mm, Euro Header, Vertical, High Temp | 21              | 395314021        | 395314321 | 395314421 | 395314521        | 395314821 | 395314921 | 395319021        | 395319321 | 395319421 | 395319521        | 395319821 | 395319921 | 108.68                  | 4.279 | 101.60 | 4.000 |
| 5.08mm, Euro Header, Vertical, High Temp | 22              | 395314022        | 395314322 | 395314422 | 395314522        | 395314822 | 395314922 | 395319022        | 395319322 | 395319422 | 395319522        | 395319822 | 395319922 | 113.76                  | 4.479 | 106.68 | 4.200 |
| 5.08mm, Euro Header, Vertical, High Temp | 23              | 395314023        | 395314323 | 395314423 | 395314523        | 395314823 | 395314923 | 395319023        | 395319323 | 395319423 | 395319523        | 395319823 | 395319923 | 118.84                  | 4.679 | 111.76 | 4.400 |
| 5.08mm, Euro Header, Vertical, High Temp | 24              | 395314024        | 395314324 | 395314424 | 395314524        | 395314824 | 395314924 | 395319024        | 395319324 | 395319424 | 395319524        | 395319824 | 395319924 | 123.92                  | 4.879 | 116.84 | 4.600 |

| 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: PG2017-0861  
 DRAWN: CRADDOREWS 2017/03/23  
 CHKD:  
 APPR: BRUPERT 2017/04/18

QUALITY SYMBOLS  
 ▽=0  
 ▽=0

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**

DRAWN BY DATE  
 LROTHAUS 12/6/05

CHECKED BY DATE  
 C. YORK 01/04/06

APPROVED BY DATE

MATERIAL NO.  
**SEE CHART**

SIZE  
**B**

SCALE  
**INCH**

DESIGN UNITS  
**INCH**

THIRD ANGLE PROJECTION

**5.08MM, EURO HEADER, VERTICAL, HI-TEMP**

**MOLEX INCORPORATED**

DOCUMENT NO.  
**SD-39531-001**

SHEET NO.  
**2 OF 2**

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