



- SPECIFICATIONS:**
- MATERIAL:**
    - (A). BODY: PA66, UL 94V-0
    - (B). TERMINAL: BRASS - TIN PLATED
    - (C). THREADED INSERT: BRASS
  - ELECTRICAL RATING:** 300V, 8A
  - MAX TORQUE:** 1.59 in.lbs. (0.18NM)
  - MINIMUM INSERT RETENTION:** 22 lbf (98N)
  - OPERATING TEMPERATURE:** -40°C to +105°C
  - MAX. SOLDERING TEMP:** 260°C (500°F) FOR 5 SECONDS
  - DIM A (OVERALL LENGTH)=** (N x P) + 10.3mm
  - DIM B (CIRCUIT LENGTH)=** (N - 1) x P
  - DIM C (MOUNTING HOLES)=** (B + 8.6mm)
  - P (PITCH) =** 3.50mm (.138")
  - N =** NUMBER OF POSITIONS AVAILABLE 2 THROUGH 20
  - PRODUCT SPEC:** PS-39500-001
  - SEE DRAWING SD-39501-002 FOR PTH INFO**
  - DIMS. SHOWN ARE FOR REFERENCE ONLY.**

| 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 |

|  |  |   |  |  |  |
|--|--|---|--|--|--|
| <b>SYMBOLS</b><br>DIMENSION UNITS: MM/INCH<br>SCALE: 4:1<br>GENERAL TOLERANCES (UNLESS SPECIFIED):<br>4 PLACES ±<br>3 PLACES ±<br>2 PLACES ±<br>1 PLACE ±<br>0 PLACES ±<br>ANGULAR TOL ± °<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION<br>CURRENT REV DESC: MIGRATION TO ECTR/NX<br>EC NO: 619929<br>DRWN: ABENJAMINLW 2019/06/12<br>CHK'D: DACHAMMER 2019/07/01<br>APPR: JFMURPHY 2019/07/08<br>INITIAL REVISION:<br>DRWN: LROTHAUS 2006/01/09<br>APPR: JPAWLICK 2006/01/10 |  | <b>molex</b><br>3.5MM, EURO HEADER<br>VERTICAL, MOUNTING ENDS<br>PRODUCT CUSTOMER DRAWING<br>DOCUMENT NUMBER: SD-39505-001<br>DOC TYPE: PSD<br>DOC PART: 001<br>REVISION: B2 |  |
| THIRD ANGLE PROJECTION<br>DRAFTING SYMBOLS   |  | SERIES: 39505<br>MATERIAL NUMBER: SEE SHEET-2<br>CUSTOMER: GENERAL MARKET<br>SHEET NUMBER: 1 OF 2   |  | B-SIZE   |  |

| DESCRIPTION                                 | CIRCUIT SIZE | MATERIAL NUMBERS |           |           |                  |           |           |                  |           |           |                  |           |           | DIMENSIONAL INFORMATION |       |          |       |          |       |
|---|--------------|------------------|-----------|-----------|------------------|-----------|-----------|------------------|-----------|-----------|------------------|-----------|-----------|-------------------------|-------|----------|-------|----------|-------|
|   |              | BLACK            |           |           |                  |           |           | GREEN            |           |           |                  |           |           |                         |       |          |       |          |       |
|   |              | 100% TIN         |           |           | 30 u" GOLD       |           |           | 100% TIN         |           |           | 30 u" GOLD       |           |           | DIM. "A"                |       | DIM. "B" |       | DIM. "C" |       |
|   |              | PRINTING OPTIONS |           |           | PRINTING OPTIONS |           |           | PRINTING OPTIONS |           |           | PRINTING OPTIONS |           |           | mm                      | inch  | mm       | inch  | mm       | inch  |
|   |              | None             | 10AV      | 11AV      | None             | 10AV      | 11AV      | None             | 10AV      | 11AV      | None             | 10AV      | 11AV      |                         |       |          |       |          |       |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 2            | 395051002        | 395051302 | 395051402 | 395051502        | 395051802 | 395051902 | 395056002        | 395056302 | 395056402 | 395056502        | 395056802 | 395056902 | 17.30                   | .681  | 3.50     | .138  | 12.10    | .476  |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 3            | 395051003        | 395051303 | 395051403 | 395051503        | 395051803 | 395051903 | 395056003        | 395056303 | 395056403 | 395056503        | 395056803 | 395056903 | 20.80                   | .819  | 7.00     | .276  | 15.60    | .614  |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 4            | 395051004        | 395051304 | 395051404 | 395051504        | 395051804 | 395051904 | 395056004        | 395056304 | 395056404 | 395056504        | 395056804 | 395056904 | 24.30                   | .957  | 10.50    | .413  | 19.10    | .752  |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 5            | 395051005        | 395051305 | 395051405 | 395051505        | 395051805 | 395051905 | 395056005        | 395056305 | 395056405 | 395056505        | 395056805 | 395056905 | 27.80                   | 1.094 | 14.00    | .551  | 22.60    | .890  |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 6            | 395051006        | 395051306 | 395051406 | 395051506        | 395051806 | 395051906 | 395056006        | 395056306 | 395056406 | 395056506        | 395056806 | 395056906 | 31.30                   | 1.232 | 17.50    | .689  | 26.10    | 1.028 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 7            | 395051007        | 395051307 | 395051407 | 395051507        | 395051807 | 395051907 | 395056007        | 395056307 | 395056407 | 395056507        | 395056807 | 395056907 | 34.80                   | 1.370 | 21.00    | .827  | 29.60    | 1.165 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 8            | 395051008        | 395051308 | 395051408 | 395051508        | 395051808 | 395051908 | 395056008        | 395056308 | 395056408 | 395056508        | 395056808 | 395056908 | 38.30                   | 1.508 | 24.50    | .965  | 33.10    | 1.303 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 9            | 395051009        | 395051309 | 395051409 | 395051509        | 395051809 | 395051909 | 395056009        | 395056309 | 395056409 | 395056509        | 395056809 | 395056909 | 41.80                   | 1.646 | 28.00    | 1.102 | 36.60    | 1.441 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 10           | 395051010        | 395051310 | 395051410 | 395051510        | 395051810 | 395051910 | 395056010        | 395056310 | 395056410 | 395056510        | 395056810 | 395056910 | 45.30                   | 1.783 | 31.50    | 1.240 | 40.10    | 1.579 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 11           | 395051011        | 395051311 | 395051411 | 395051511        | 395051811 | 395051911 | 395056011        | 395056311 | 395056411 | 395056511        | 395056811 | 395056911 | 48.80                   | 1.921 | 35.00    | 1.378 | 43.60    | 1.717 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 12           | 395051012        | 395051312 | 395051412 | 395051512        | 395051812 | 395051912 | 395056012        | 395056312 | 395056412 | 395056512        | 395056812 | 395056912 | 52.30                   | 2.059 | 38.50    | 1.516 | 47.10    | 1.854 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 13           | 395051013        | 395051313 | 395051413 | 395051513        | 395051813 | 395051913 | 395056013        | 395056313 | 395056413 | 395056513        | 395056813 | 395056913 | 55.80                   | 2.197 | 42.00    | 1.654 | 50.60    | 1.992 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 14           | 395051014        | 395051314 | 395051414 | 395051514        | 395051814 | 395051914 | 395056014        | 395056314 | 395056414 | 395056514        | 395056814 | 395056914 | 59.30                   | 2.335 | 45.50    | 1.791 | 54.10    | 2.130 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 15           | 395051015        | 395051315 | 395051415 | 395051515        | 395051815 | 395051915 | 395056015        | 395056315 | 395056415 | 395056515        | 395056815 | 395056915 | 62.80                   | 2.472 | 49.00    | 1.929 | 57.60    | 2.268 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 16           | 395051016        | 395051316 | 395051416 | 395051516        | 395051816 | 395051916 | 395056016        | 395056316 | 395056416 | 395056516        | 395056816 | 395056916 | 66.30                   | 2.610 | 52.50    | 2.067 | 61.10    | 2.406 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 17           | 395051017        | 395051317 | 395051417 | 395051517        | 395051817 | 395051917 | 395056017        | 395056317 | 395056417 | 395056517        | 395056817 | 395056917 | 69.80                   | 2.748 | 56.00    | 2.205 | 64.60    | 2.543 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 18           | 395051018        | 395051318 | 395051418 | 395051518        | 395051818 | 395051918 | 395056018        | 395056318 | 395056418 | 395056518        | 395056818 | 395056918 | 73.30                   | 2.886 | 59.50    | 2.343 | 68.10    | 2.681 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 19           | 395051019        | 395051319 | 395051419 | 395051519        | 395051819 | 395051919 | 395056019        | 395056319 | 395056419 | 395056519        | 395056819 | 395056919 | 76.80                   | 3.024 | 63.00    | 2.480 | 71.60    | 2.819 |
| 3.5MM, EURO HEADER, VERTICAL, MOUNTING ENDS | 20           | 395051020        | 395051320 | 395051420 | 395051520        | 395051820 | 395051920 | 395056020        | 395056320 | 395056420 | 395056520        | 395056820 | 395056920 | 80.30                   | 3.161 | 66.50    | 2.618 | 75.10    | 2.957 |

| 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 |                        |   |
|         | DIMENSION UNITS   | SCALE                  | CURRENT REV DESC: MIGRATION TO ECTR/NX  |
| ▽ = 0   | MM/INCH   | 2:1                    | EC NO: 619929<br>DRWN: ABENJAMINLW 2019/06/12<br>CHK'D: DACHAMMER 2019/07/01<br>APPR: JFMURPHY 2019/07/08 |
| ▽ = 0   | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                        |   |
| ▽ = 0   | 4 PLACES ±  | ±                      | INITIAL REVISION:<br>DRWN: LROTHAUS 2006/01/09<br>APPR: JPAWLICK 2006/01/10                               |
| ▽ = 0   | 3 PLACES ±  | ± SEE CHART            |   |
| ▽ = 0   | 2 PLACES ±  | ± SEE CHART            | DOCUMENT NUMBER<br>SD-39505-001   |
| ▽ = 0   | 1 PLACE ±   | ± SEE CHART            |   |
| ▽ = 0   | 0 PLACES ±  | ±                      | DOC TYPE<br>PSD   |
| □ = 0   | ANGULAR TOL ± °   |                        | DOC PART<br>001   |
| ■ = 0   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  | THIRD ANGLE PROJECTION | REVISION<br>B2  |
| ▽ = 0   |   | DRAWING<br>B-SIZE      | MATERIAL NUMBER<br>SEE TABLE  |
|         |   | SERIES<br>39505        | CUSTOMER<br>GENERAL MARKET  |
|         |   |                        | SHEET NUMBER<br>2 OF 2  |