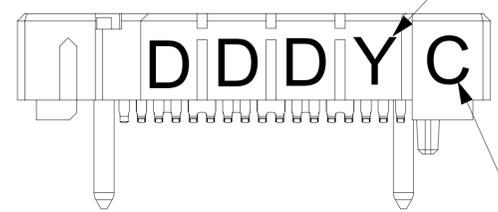


2033162100 WITH PICK AND PLACE DUST COVER  
(SCALE 6:1)

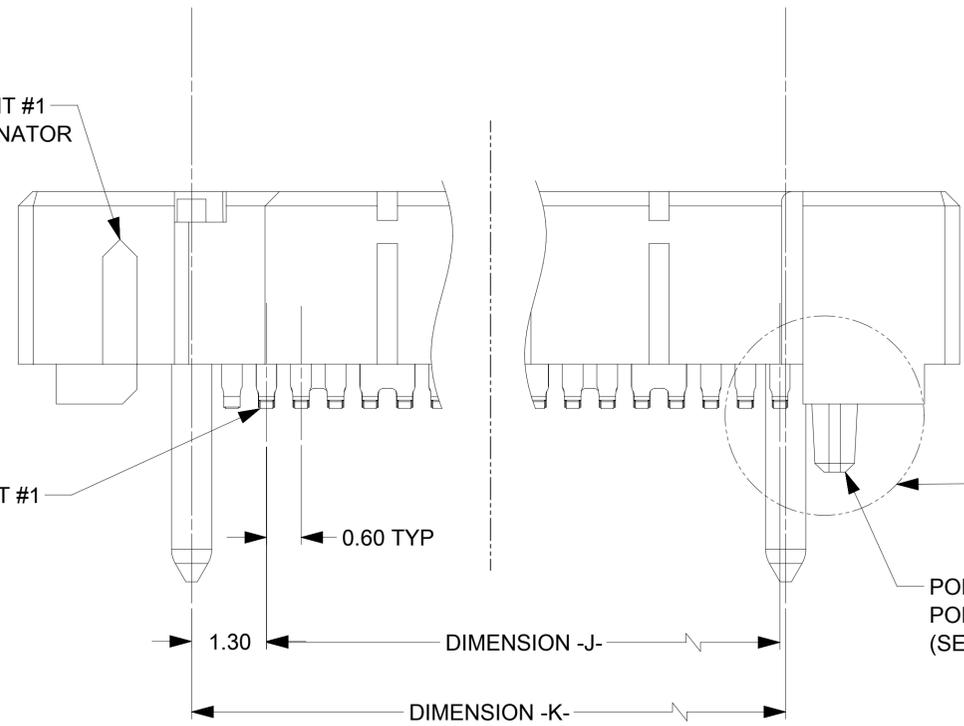


DDDY JULIAN DATE CODE  
2.00 ± 0.25  
LASER ETCHED  
HIGH CHARACTERS

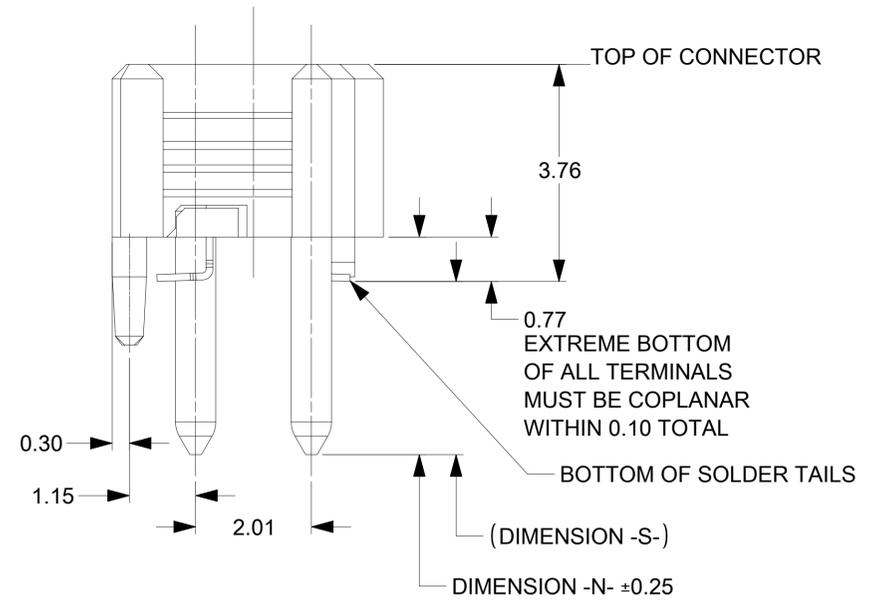
IMPEDANCE IDENTIFIER  
C = 100 OHMS

CIRCUIT #1  
DESIGNATOR

CIRCUIT #1



POLARIZATION PEG  
POLARIZED OPTION ONLY  
(SEE TABLE)



TOP OF CONNECTOR

3.76

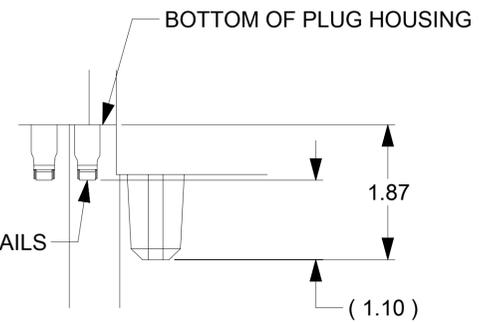
0.77  
EXTREME BOTTOM  
OF ALL TERMINALS  
MUST BE COPLANAR  
WITHIN 0.10 TOTAL

BOTTOM OF SOLDER TAILS

(DIMENSION -S-)

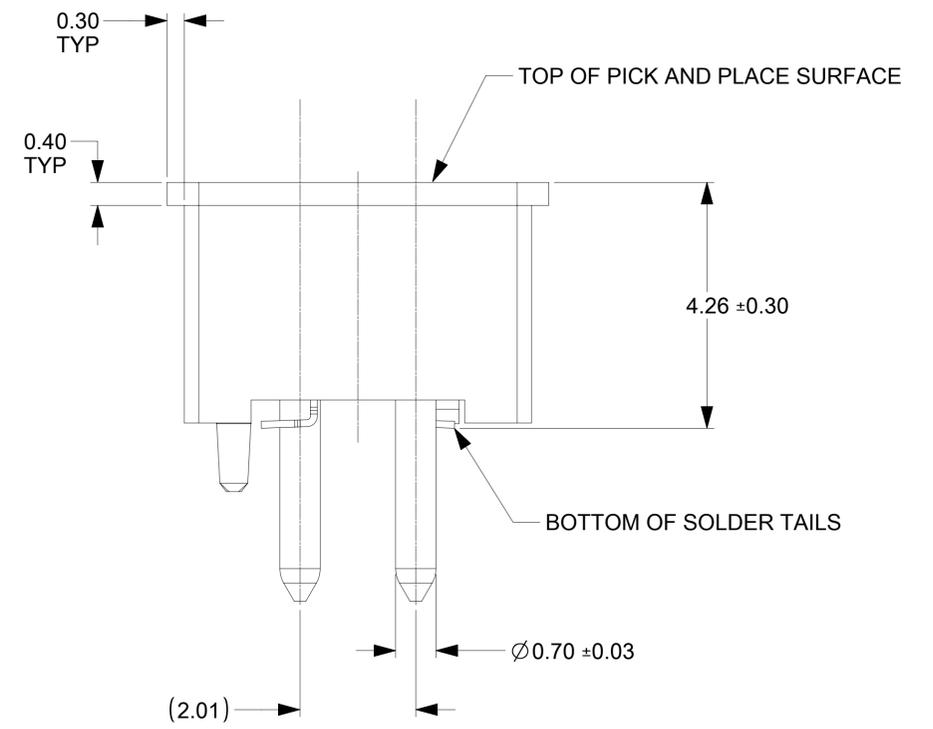
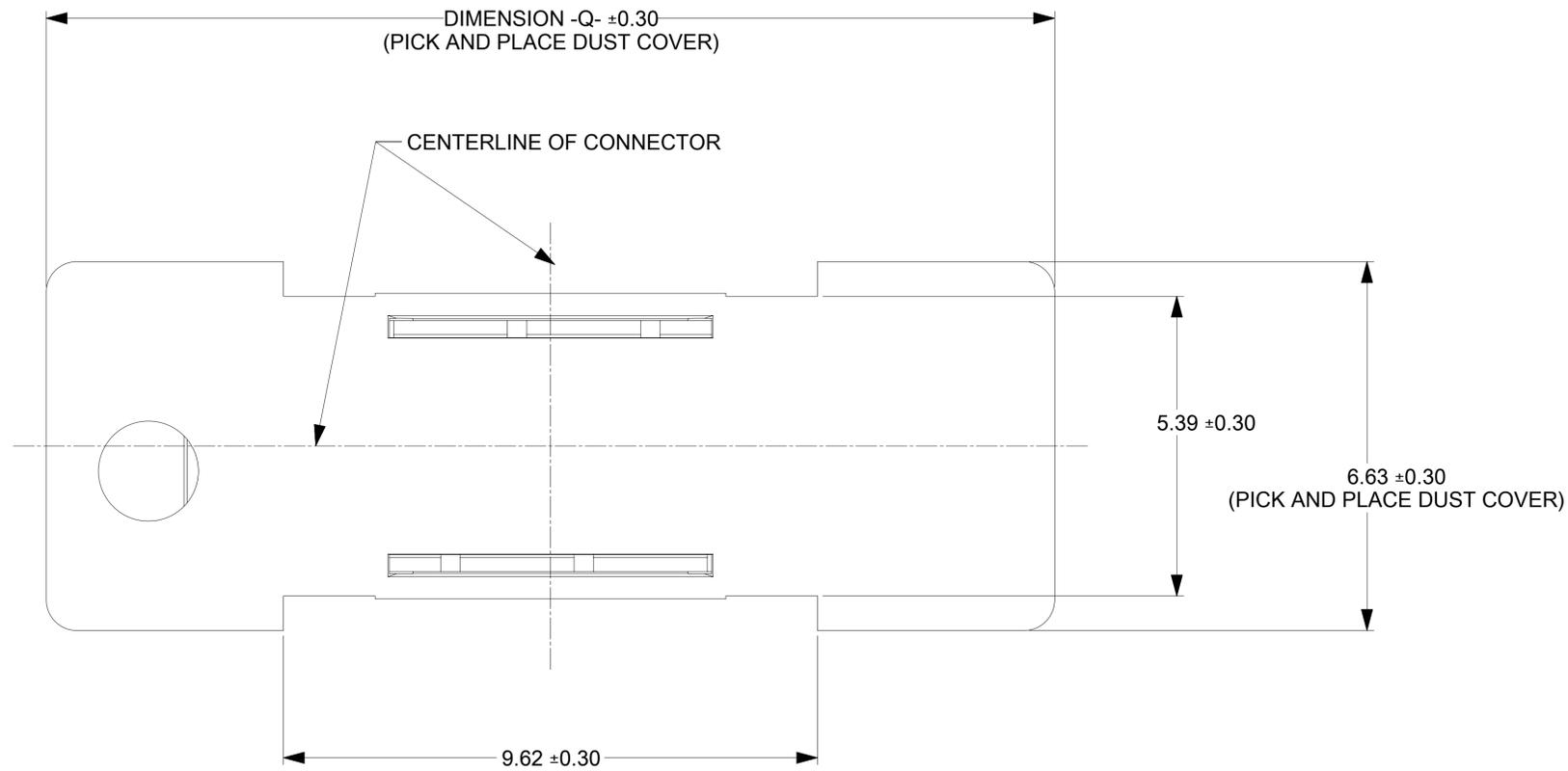
DIMENSION -N- ±0.25

- NOTES:
- MATERIAL:  
HOUSING: LCP, GLASS FILLED, UL 94V-0 BLACK  
PICK AND PLACE DUST COVER: LCP, GLASS FILLED, UL 94V-0 NATURAL  
CONTACT: HIGH PERFORMANCE COPPER ALLOY  
SOLDER NAIL: STAINLESS STEEL
  - FINISH:  
CONTACT: 30 MICROINCHES (0.76 MICRONS) MIN SELECTIVE GOLD ON CONTACT AREA,  
2 MICROINCHES (0.05 MICRONS) MIN SELECTIVE GOLD ON SOLDER TAIL OVER  
50 MICROINCHES (1.27 MICRONS) MIN NICKEL OVERALL.  
SOLDER NAIL: TIN OVER 50 MICROINCHES NICKEL MIN
  - PRODUCT SPECIFICATION: 2033160001
  - PACKAGING SPECIFICATION: 2033169100
  - APPLICATION SPECIFICATION: 2033160001-AS
  - MATES TO SEE TABLE
  - SEE APPLICATION TOOLING SPECIFICATION 200199-1190 FOR KEEP OUT ZONE SPECIFICATION
  - MUST CONFORM TO THE COSMETIC SPECIFICATION: PS-45499-002, CLASS B; EXCEPT ANY IMPERFECTIONS MUST FIT WITHIN A 0.08mm DIAMETER SPHERE (DUE TO THE SMALL SIZE OF THIS PART).



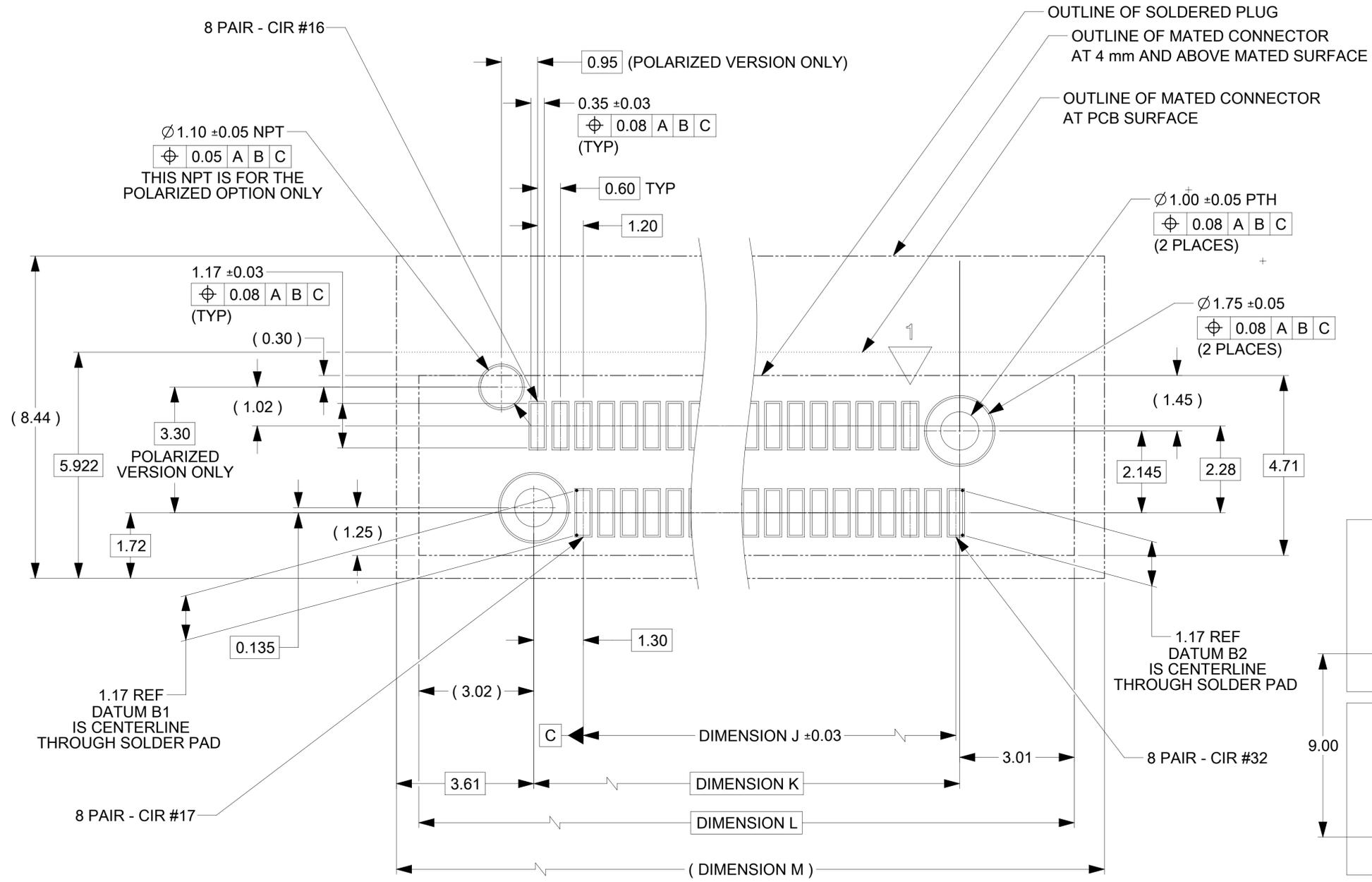
DETAIL M  
SCALE 20:1

|  |   |  |   |                                      |  |
|--|---|--|---|--------------------------------------|--|
| FUNCTIONAL SYMBOLS<br>FA = 0<br>FC = 0<br>FD = 0 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | CURRENT REV DESC: UPDATED SHEETS 3 AND 4 TO ONLY CALL OUT 8DP PRODUCTS. |                                      |  |
|  | DIMENSION UNITS<br>mm   | SCALE<br>16:1  |   |                                      |  |
| DIVISIONAL SYMBOLS<br>SI = 0<br>TA = 0           | GENERAL TOLERANCES (UNLESS SPECIFIED)   |  | EC NO: 676131   |                                      | NEARSTACK PLUG 100OHM 33°GEN2 GOLD FLASH<br>PRODUCT CUSTOMER DRAWING |
|  | ANGULAR TOL ± 1.0°  |  | DRWN: MILESD2 2021/09/07  |                                      |  |
| 4 PLACES ±                                       |   | CHK'D: DMCGOWAN 2021/09/15                           |   | DOCUMENT NUMBER<br><b>2033162200</b> | DOC TYPE<br>PSD  |
| 3 PLACES ±                                       |   | APPR: DMCGOWAN 2021/09/15                            |   |                                      |  |
| 2 PLACES ± 0.15                                  |   | INITIAL REVISION:<br>DRWN: DVARVARA 2021/03/18       |   | MATERIAL NUMBER<br>SEE TABLE         |  |
| 1 PLACE ±  |   | APPR: JGONZALEZ01 2021/03/31                         |   | CUSTOMER<br>GENERAL MARKET           |  |
| 0 PLACES ±                                       |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   | SHEET NUMBER<br>1 OF 4               |  |
| THIRD ANGLE PROJECTION                           |   | DRAWING  |   | SERIES<br>D-SIZE 203316              |  |

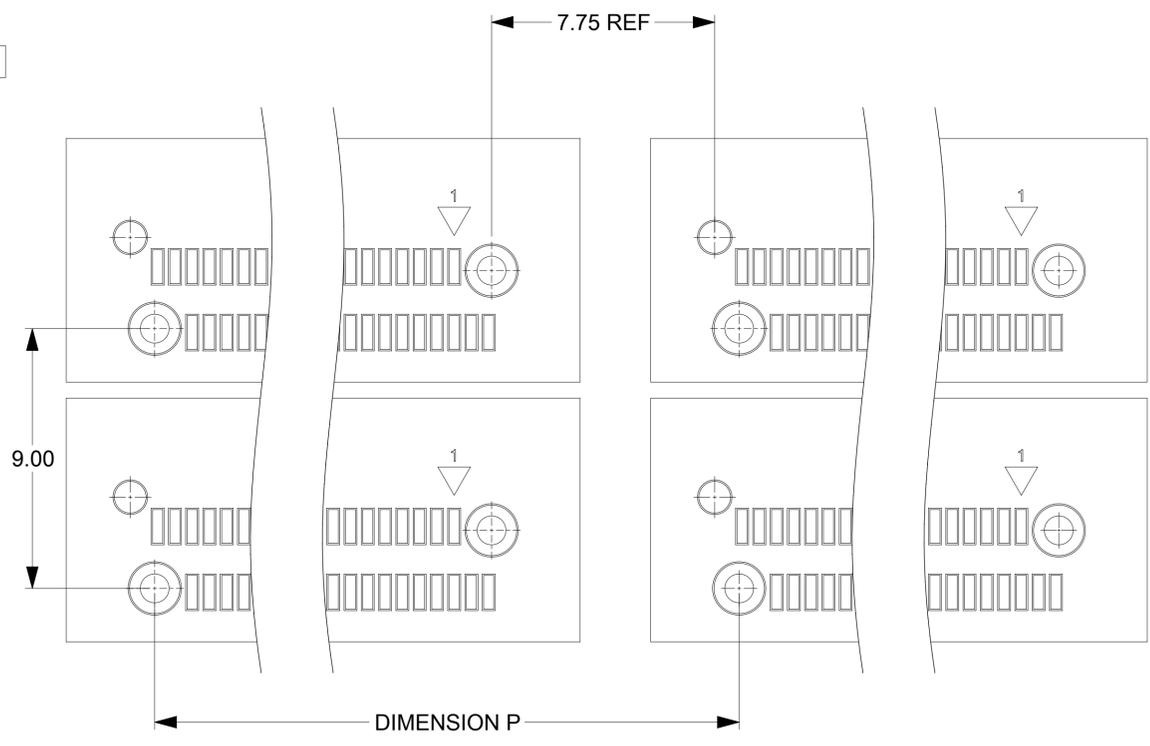


|  |  |  |  |  |  |  |  |  |  |  |  |                       |  |                            |  |                          |  |                      |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------|--|----------------------------|--|--------------------------|--|----------------------|--|--|--|--|--|
| FUNCTIONAL SYMBOLS<br>$\nabla_A = 0$<br>$\nabla_C = 0$<br>$\nabla_P = 0$<br>DIVISIONAL SYMBOLS<br>$\nabla_{SI} = 0$<br>$\nabla_{TA} = 0$                           |  |  |  |  |  |  |  |  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION<br>DIMENSION UNITS: <b>mm</b> SCALE: <b>1:1</b><br>CURRENT REV DESC: UPDATED SHEETS 3 AND 4 TO ONLY CALL OUT 8DP PRODUCTS.<br>EC NO: 676131<br>DRWN: MILESD2 2021/09/07<br>CHK'D: DMCGOWAN 2021/09/15<br>APPR: DMCGOWAN 2021/09/15<br>INITIAL REVISION:<br>DRWN: DVARVARA 2021/03/18<br>APPR: JGONZALEZ01 2021/03/31 |  |                       |  |                            |  |                          |  |                      |  |  |  |  |  |
| GENERAL TOLERANCES (UNLESS SPECIFIED)<br>ANGULAR TOL $\pm 1.0^\circ$<br>4 PLACES $\pm$<br>3 PLACES $\pm$<br>2 PLACES $\pm 0.15$<br>1 PLACE $\pm$<br>0 PLACES $\pm$ |  |  |  |  |  |  |  |  |  | PRODUCT CUSTOMER DRAWING<br>DOCUMENT NUMBER: <b>2033162200</b> DOC TYPE: PSD DOC PART: 000 REVISION: A1<br>MATERIAL NUMBER: SEE TABLE CUSTOMER: GENERAL MARKET SHEET NUMBER: 2 OF 4  |  |                       |  |                            |  |                          |  |                      |  |  |  |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS<br>THIRD ANGLE PROJECTION   |  |  |  |  |  |  |  |  |  | DRAWING: <b>D-SIZE</b>   |  | SERIES: <b>203316</b> |  | MATERIAL NUMBER: SEE TABLE |  | CUSTOMER: GENERAL MARKET |  | SHEET NUMBER: 2 OF 4 |  |  |  |  |  |

# CABLES EMERGE FROM THIS SIDE OF THE MATED CONNECTORS



## FOOT PRINT



MINIMUM RECOMMENDED GRID WITHOUT ALLOWANCE FOR EXTRACTION TOOL, SEE NOTE 7.

FOOT PRINT NOTES:  
1. DATUM -A- IS THE TOP OF THE PCB

|  |   |                                       |   |                          |                |              |
|--|---|---------------------------------------|---|--------------------------|----------------|--------------|
| FUNCTIONAL SYMBOLS<br>FA = 0<br>FC = 0<br>FD = 0     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | SCALE<br>10:1                         | CURRENT REV DESC: UPDATED SHEETS 3 AND 4 TO ONLY CALL OUT 8DP PRODUCTS. |                          |                |              |
|  | DIMENSION UNITS<br>mm   | GENERAL TOLERANCES (UNLESS SPECIFIED) | EC NO: 676131   |                          |                |              |
| DIVISIONAL SYMBOLS<br>SI = 0<br>TA = 0               | ANGULAR TOL ± 1.0°  | 4 PLACES ±                            | DRWN: MILESD2 2021/09/07  | PRODUCT CUSTOMER DRAWING |                |              |
|  | 3 PLACES ±  | 3 PLACES ±                            | CHK'D: DMCGOWAN 2021/09/15  | DOCUMENT NUMBER          |                |              |
|  | 2 PLACES ± 0.15   | 2 PLACES ±                            | APPR: DMCGOWAN 2021/09/15   | 2033162200               |                |              |
|  | 1 PLACE ±   | 1 PLACE ±                             | INITIAL REVISION:<br>DRWN: DVARVARA 2021/03/18                          | DOC TYPE                 | DOC PART       | REVISION     |
|  | 0 PLACES ±  | 0 PLACES ±                            | APPR: JGONZALEZ01 2021/03/31  | PSD                      | 000            | A1           |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | THIRD ANGLE PROJECTION  | DRAWING                               | SERIES  | MATERIAL NUMBER          | CUSTOMER       | SHEET NUMBER |
|  |   | D-SIZE                                | 203316  | SEE TABLE                | GENERAL MARKET | 3 OF 4       |

| MATERIAL NUMBER | PAIRS | POLARIZATION OPTION | MATES TO SERIES | DIMENSION J (SLDR PAD TO SLD R PAD) | DIMENSION K (SLDR NAIL TO SLD R NAIL) | DIMENSION L (LENGTH OF PLUG) | DIMENSION M (MATED CONNECTOR LENGTH) | DIMENSION N (SOLDER NAIL LENGTH) | DIMENSION S (EXPOSED SOLDER NAIL LENGTH) REFERENCE ONLY | DIMENSION P (LONGITUDINAL GRID PITCH) | DIMENSION Q (LENGTH OF P&P CAP) | DIMENSION R |
|-----------------|-------|---------------------|-----------------|-------------------------------------|---------------------------------------|------------------------------|--------------------------------------|----------------------------------|---|---------------------------------------|---------------------------------|-------------|
| 2033162200      | 8     | POLARIZED           | 206138          | 9.00mm                              | 10.40mm                               | 16.43mm                      | 18.00mm                              | 3.77mm                           | 3.00mm  | 19.00mm                               | 18.16mm                         | 22.42mm     |
| 2033162201      |       | NON POLARIZED       |                 |                                     |                                       |                              |                                      |                                  |   |                                       |                                 |             |
| 2033162204      |       | NON POLARIZED       |                 |                                     |                                       |                              |                                      |                                  |   |                                       |                                 |             |
| 2033162205      |       | POLARIZED           |                 |                                     |                                       |                              |                                      |                                  |   |                                       |                                 |             |
| 2033162206      |       | POLARIZED           |                 |                                     |                                       |                              |                                      |                                  |   |                                       |                                 |             |
| 2033162207      |       | NON POLARIZED       |                 |                                     |                                       |                              |                                      |                                  |   |                                       |                                 |             |

WIRING CHART FOR EIGHT PAIRS

|          | CIRCUIT # |          | CIRCUIT# |
|----------|-----------|----------|----------|
| GROUND 1 | 1         | GROUND 2 | 32       |
| SIGNAL   | 2         | SIGNAL   | 31       |
| SIGNAL   | 3         | SIGNAL   | 30       |
| GROUND 1 | 4         | GOUND 2  | 29       |
| GROUND 1 | 5         | GROUND 2 | 28       |
| SIGNAL   | 6         | SIGNAL   | 27       |
| SIGNAL   | 7         | SIGNAL   | 26       |
| GROUND 1 | 8         | GROUND 2 | 25       |
| GROUND 1 | 9         | GROUND 2 | 24       |
| SIGNAL   | 10        | SIGNAL   | 23       |
| SIGNAL   | 11        | SIGNAL   | 22       |
| GROUND 1 | 12        | GROUND 2 | 21       |
| GROUND 1 | 13        | GROUND 2 | 20       |
| SIGNAL   | 14        | SIGNAL   | 19       |
| SIGNAL   | 15        | SIGNAL   | 18       |
| GROUND 1 | 16        | GROUND 2 | 17       |

GROUND 1 AND GROUND 2 TO BE TREATED AS ELECTRICALLY COMMON

|  |   |  |   |                                      |   |                 |                |
|--|---|--|---|--------------------------------------|---|-----------------|----------------|
| FUNCTIONAL SYMBOLS<br>$\nabla_A = 0$<br>$\nabla_C = 0$<br>$\nabla_P = 0$<br>DIVISIONAL SYMBOLS<br>$\nabla_{SI} = 0$<br>$\nabla_{TA} = 0$ | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | CURRENT REV DESC: UPDATED SHEETS 3 AND 4 TO ONLY CALL OUT 8DP PRODUCTS. |                                      | <br>NEARSTACK PLUG 100OHM 33°GEN2 GOLD FLASH<br>PRODUCT CUSTOMER DRAWING |                 |                |
|  | DIMENSION UNITS   | SCALE  | EC NO: 676131   |                                      |   |                 |                |
|  | mm  | 1:1  | DRWN: MILESD2 2021/09/07  |                                      |   |                 |                |
|  | GENERAL TOLERANCES (UNLESS SPECIFIED)   |  | CHK'D: DMCGOWAN 2021/09/15  |                                      |   |                 |                |
| ANGULAR TOL ± 1.0°   |   | APPR: DMCGOWAN 2021/09/15                            |   | DOCUMENT NUMBER<br><b>2033162200</b> | DOC TYPE<br>PSD   | DOC PART<br>000 | REVISION<br>A1 |
| 4 PLACES ±   |   | INITIAL REVISION:                                    |   |                                      |   |                 |                |
| 3 PLACES ±   |   | DRWN: DVARVARA 2021/03/18                            |   | MATERIAL NUMBER                      |   | CUSTOMER        |                |
| 2 PLACES ± 0.15  |   | APPR: JGONZALEZ01 2021/03/31                         |   | 203316                               |   | GENERAL MARKET  |                |
| 1 PLACE ±  |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   | SEE TABLE                            |   | SHEET NUMBER    |                |
| 0 PLACES ±   |   | THIRD ANGLE PROJECTION                               |   | D-SIZE                               |   | 4 OF 4          |                |