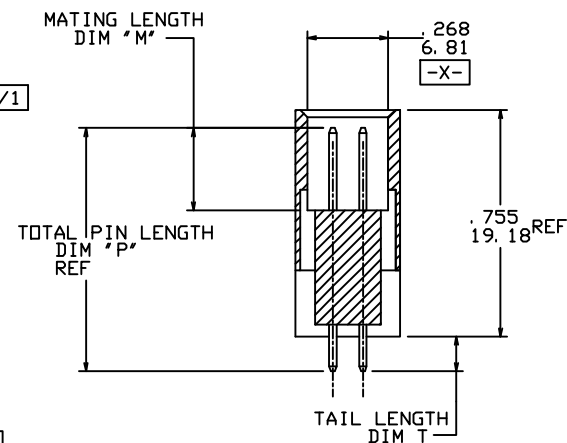
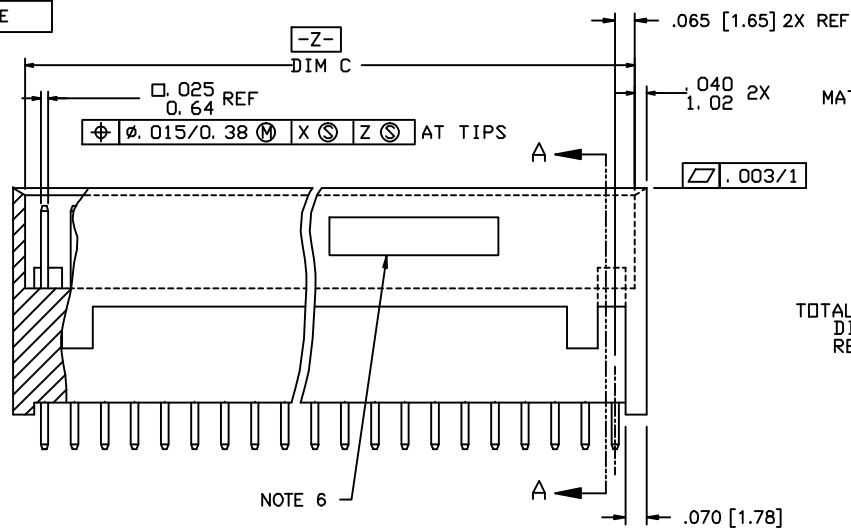
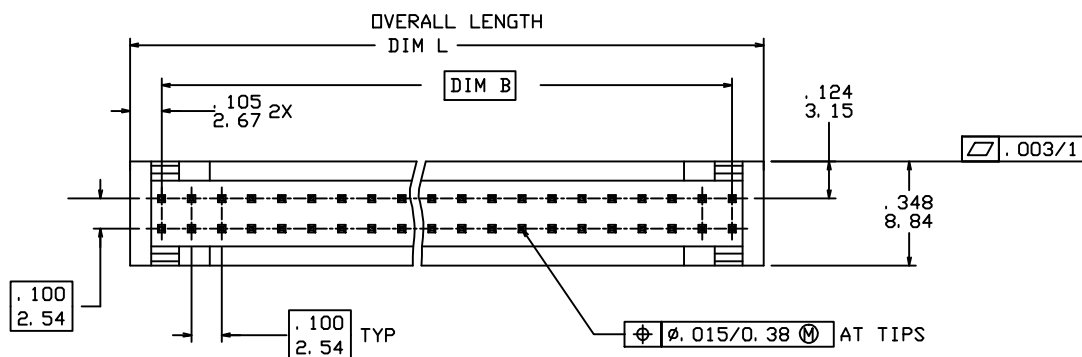


PRODUCT NUMBER  
SEE TABLE



SECTION A-A

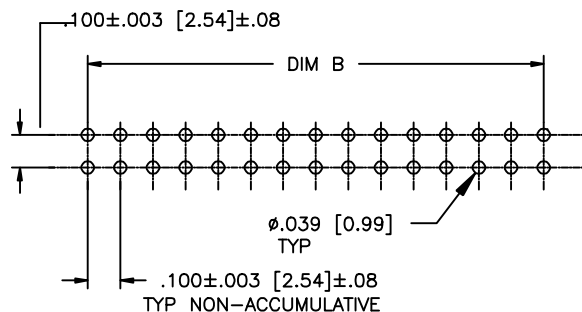


|                           |          |     |          |                                       |                                  |                       |                                   |
|---------------------------|----------|-----|----------|---------------------------------------|----------------------------------|-----------------------|-----------------------------------|
| mat'l. code<br>NOTE 3 & 4 |          |     |          | surface<br>ISO 802                    | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM | product family<br>HEADERS         |
| ltr                       | ecn no   | dr  | date     | tolerances unless otherwise specified |                                  | INCH/MM               | title                             |
| E                         | V13304   | JWB | 12/19/91 | angles                                | linear                           | scale 2:1             | VERTICAL STACKING 2-ROW HEADER    |
| F                         | V50975   | MDF | 8/7/95   |                                       |                                  |                       | .755/19.18 W/O MOUNTING HOLES     |
| G                         | V71450   | HTB | 10/7/97  | 0°±2'                                 |                                  |                       | dwg no 68210 sheet 1 of 4 size A3 |
| H                         | M05-0089 | ERE | 4/20/05  | dr                                    | M. FETROW                        | 7/20/95               | type Product Customer Drawing     |
| J                         | M07-0116 | AGS | 2/19/07  | eng                                   | L. FYE                           | 7/20/95               |                                   |
| K                         | M08-0279 | MHT | 9/30/08  | chr                                   | T. BREWBAKER                     | 7/20/95               |                                   |
|                           |          |     |          | appd                                  | L. FYE                           | 7/20/95               |                                   |
| sheet                     | revision | K   | K        | K                                     | K                                |                       |                                   |
| index                     | sheet    | 1   | 2        | 3                                     | 4                                |                       |                                   |

| POSITION TABLE |      |
|----------------|------|
| PRODUCT NO     | SIZE |
| XXXXX-001      | 2X5  |
| -002           | 2X6  |
| -003           | 2X7  |
| -004           | 2X8  |
| -005           | 2X9  |
| -006           | 2X10 |
| -007           | 2X11 |
| -008           | 2X12 |
| -009           | 2X13 |
| -010           | 2X14 |
| -011           | 2X15 |
| -012           | 2X16 |
| -013           | 2X17 |
| -014           | 2X18 |
| -015           | 2X19 |
| -016           | 2X20 |
| -017           | 2X21 |
| -018           | 2X22 |
| -019           | 2X23 |
| -020           | 2X24 |
| -021           | 2X25 |
| -022           | 2X26 |
| -023           | 2X27 |
| -024           | 2X28 |
| -025           | 2X29 |
| -026           | 2X30 |
| -027           | 2X31 |
| -028           | 2X32 |
| -029           | 2X33 |
| -030           | 2X34 |
| -031           | 2X35 |
| XXXXX-032      | 2X36 |

#### PART NUMBER INFORMATION

XXXXX-XXX LF  
 → LEAD FREE OPTION  
 → SEE POSITION TABLE FOR SIZES NOTE 1  
 → BASE PART NO.



RECOMMENDED PC BOARD LAYOUT  
 SCALE 2/1

#### NOTES

- SEE POSITION TABLE FOR PRODUCT NO AND SIZE TABULATION. HOUSING DASH NO IS SAME AS HEADER DASH NO.
- DIM B =  
 (NO OF COLUMNS - 1) TIMES .100 (ENGLISH)  
 (NO OF COLUMNS - 1) TIMES 2.54 (METRIC)
- MOLDING MATERIAL: 20% MIN GLASS FILLED NYLON PER UL 94V-0.  
 COLOR: BLACK, OXYGEN INDEX 36.  
 OR  
 MINERAL FILLED LCP FLAME RETARDENT  
 PER UL-94V-0. COLOR: BLACK.
- TERMINAL MATERIAL: 3/4 HARD PHOS BRONZE ALLOY UNS C51000.
- PIN RETENTION TO BE 3 LBS./1.4 KGS MINIMUM PER PIN IN EITHER DIRECTION.
- COMPANY LOGO TO BE MOLDED IN APPROX LOCATION SHOWN.
- ADD "LF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260° FOR 15 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.5mm MINIMUM THICK CIRCUIT BOARD SEE APPLICATION NOTES/PROCEDURES IF THEY ARE AVAILABLE.
- THESE PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- PLATING OPTIONS:  
 MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

|                           |                |                     |                                  |                                         |                               |
|---------------------------|----------------|---------------------|----------------------------------|-----------------------------------------|-------------------------------|
| mat'l. code<br>NOTE 3 & 4 |                | surface<br>ISO 1902 | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM                   | product family<br>HEADERS     |
| ltr                       | ecn no         | dr                  | date                             | title<br>VERTICAL STACKING 2-ROW HEADER |                               |
| K                         |                |                     |                                  | .755/19.18 W/O MOUNTING HOLES           |                               |
| angles                    |                | linear              | linear                           | scale 2:1                               | dwg no<br>68210               |
| 0°±2'                     |                |                     |                                  |                                         | sheet 2 of 4 size<br>A3       |
| dr                        | M. FETROW      | 7/20/95             |                                  |                                         |                               |
| engr                      | L. FYE         | 7/20/95             |                                  |                                         |                               |
| chr                       | T. BREWBAKER   | 7/20/95             |                                  |                                         |                               |
| appd                      | L. FYE         | 7/20/95             |                                  |                                         |                               |
| sheet index               | revision sheet |                     |                                  |                                         | type Product Customer Drawing |

| PRODUCT NO<br>NOTE 7 | TERMINAL PLATING (NOTE 10)                                                                          |
|----------------------|-----------------------------------------------------------------------------------------------------|
| 68210-XXX            | 15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni.                                                           |
| 68210-033            | 15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni.                                                           |
| 68210-034            | 15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni.                                                           |
| 68533-XXX            | 120u"/3.05u MIN 93/7 SnPb OVER 50u"/1.27u MIN Ni.                                                   |
| 68583-XXX            | 30u"/0.76u MIN GXT OVER 50u"/1.27u MIN Ni.                                                          |
| 69205-XXX            | 15u"/0.38u MIN GXT OVER 50u"/1.27u MIN Ni.                                                          |
| 69667-XXX            | 30u"/0.76u MIN Au OVER 50u"/1.27u MIN Ni.                                                           |
| 69963-XXX            | DUPLEX { CONTACT: 15u"/0.38u Au OVER 50u"/1.27u Ni.<br>TAIL: 100u"/2.54u MIN Sn OVER 50u"/1.27u Ni. |
| 69967-XXX            | DUPLEX { CONTACT: 30u"/0.76u Au OVER 50u"/1.27u Ni.<br>TAIL: 100u"/2.54u MIN Sn OVER 50u"/1.27u Ni. |
| 89445-022            | 15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni.                                                           |
| 90045-XXX            | DUPLEX { CONTACT: 15u"/0.38u Au OVER 50u"/1.27u Ni.<br>TAIL: 100u"/2.54u MIN Sn OVER 50u"/1.27u Ni. |

|                           |        |                |      |                                                         |              |                                                                               |                                                                                       |                                                                                                     |        |                                                                 |              |
|---------------------------|--------|----------------|------|---------------------------------------------------------|--------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|--------------|
| mat'l. code<br>NOTE 3 & 4 |        |                |      | surface<br>ISO 1902 <input checked="" type="checkbox"/> |              | tolerance<br>ISO 406<br>ISO 1101                                              |                                                                                       | projection<br> |        | product family<br>HEADERS                                       |              |
| ltr                       | ecn no | dr             | date | tolerances unless otherwise specified                   |              |                                                                               |                                                                                       |                                                                                                     |        |                                                                 |              |
| K                         |        |                |      | angles                                                  |              | linear                                                                        |                                                                                       | INCH/MM                                                                                             |        | title                                                           |              |
|                           |        |                |      | 0° ± 2°                                                 |              | XXX ± .01 / XXX ± .03<br>XXX ± .005 / XXX ± .013<br>XXX ± .0020 / XXX ± .0051 |                                                                                       | scale 2:1                                                                                           |        | VERTICAL STACKING 2-ROW HEADER<br>.755/19.18 W/O MOUNTING HOLES |              |
|                           |        |                |      | dr                                                      | M. FETROW    | 7/20/95                                                                       |  |                                                                                                     | dwg no |                                                                 | sheet 3 of 4 |
|                           |        |                |      | engr                                                    | L. FYE       | 7/20/95                                                                       |                                                                                       |                                                                                                     | 68210  |                                                                 | A3           |
|                           |        |                |      | chr                                                     | T. BREWBAKER | 7/20/95                                                                       |                                                                                       |                                                                                                     |        |                                                                 |              |
|                           |        |                |      | appd                                                    | L. FYE       | 7/20/95                                                                       |                                                                                       |                                                                                                     |        |                                                                 |              |
| sheet index               |        | revision sheet |      |                                                         |              |                                                                               |                                                                                       |                                                                                                     |        | type Product Customer Drawing                                   |              |

| PRODUCT NO<br>NOTE 7 | SIZE   | DIM "B"     | DIM "C"               | DIM "L"               | TAIL LENGTH<br>DIM "T"         | MATING<br>LENGTH<br>DIM "M" | TOTAL PIN<br>LENGTH<br>DIM "P" |
|----------------------|--------|-------------|-----------------------|-----------------------|--------------------------------|-----------------------------|--------------------------------|
| 68210-XXX            | NOTE 1 | NOTE 2      | DIM "B"<br>+.130/3.30 | DIM "B"<br>+.210/5.33 | .103/2.62 MIN<br>.130/3.30 MAX | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 68210-033            | 2 x 15 | 1.400/35.56 | 1.53/38.9             | 1.61/40.9             | .148±.008<br>3.76±0.20         | .275±.010<br>6.98±0.25      | .840/21.34                     |
| 68210-034            | 2 x 25 | 2.400/60.96 | 2.53/64.3             | 2.61/66.3             | .148±.008<br>3.76±0.20         | .275±.010<br>6.98±0.25      | .840/21.34                     |
| 68533-XXX            | NOTE 1 | NOTE 2      | DIM "B"<br>+.130/3.30 | DIM "B"<br>+.210/5.33 | .103/2.62 MIN<br>.130/3.30 MAX | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 68583-XXX            |        |             |                       |                       |                                | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 69205-XXX            |        |             |                       |                       |                                | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 69667-XXX            |        |             |                       |                       |                                | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 69963-XXX            |        |             |                       |                       |                                | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 69967-XXX            | NOTE 1 | NOTE 2      | DIM "B"<br>+.130/3.30 | DIM "B"<br>+.210/5.33 |                                | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 89445-022            | 2 x 26 | 2.500/63.50 | 2.63/66.8             | 2.71/68.8             |                                | .400±.010<br>10.16±0.25     | .935/23.75                     |
| 90045-XXX            | NOTE 1 | NOTE 2      | DIM "B"<br>+.130/3.30 | DIM "B"<br>+.210/5.33 |                                | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 69967-XXX            | NOTE 1 | NOTE 2      | DIM "B"<br>+.130/3.30 | DIM "B"<br>+.210/5.33 |                                | .275±.010<br>6.98±0.25      | .810/20.57                     |
| 89445-022            | 2 x 26 | 2.500/63.50 | 2.63/66.8             | 2.71/68.8             | .103/2.62 MIN<br>.130/3.30 MAX | .400±.010<br>10.16±0.25     | .935/23.75                     |
| 90045-XXX            | NOTE 1 | NOTE 2      | DIM "B"<br>+.130/3.30 | DIM "B"<br>+.210/5.33 | .103/2.62 MIN<br>.130/3.30 MAX | .275±.010<br>6.98±0.25      | .810/20.57                     |

|                           |        |          |      |                                                         |  |                                  |  |                |  |                                |  |  |
|---------------------------|--------|----------|------|---------------------------------------------------------|--|----------------------------------|--|----------------|--|--------------------------------|--|--|
| mat'l. code<br>NOTE 3 & 4 |        |          |      | surface<br>ISO 1902 <input checked="" type="checkbox"/> |  | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br> |  | product family<br>HEADERS      |  |  |
| ltr                       | ecn no | dr       | date | tolerances unless otherwise specified                   |  |                                  |  |                |  |                                |  |  |
| K                         |        |          |      | angles                                                  |  | linear                           |  | INCH/MM        |  | title                          |  |  |
|                           |        |          |      |                                                         |  |                                  |  |                |  | VERTICAL STACKING 2-ROW HEADER |  |  |
|                           |        |          |      | 0'±2'                                                   |  |                                  |  | scale 2:1      |  | .755/19.18 W/O MOUNTING HOLES  |  |  |
| dr                        |        |          |      | M. FETROW                                               |  | 7/20/95                          |  |                |  | dwg no                         |  |  |
| eng                       |        |          |      | L. FYE                                                  |  | 7/20/95                          |  |                |  | sheet 4 of 4                   |  |  |
| chr                       |        |          |      | T. BREWBAKER                                            |  | 7/20/95                          |  |                |  | size                           |  |  |
| appd                      |        |          |      | L. FYE                                                  |  | 7/20/95                          |  |                |  | A3                             |  |  |
| sheet                     |        | revision |      |                                                         |  |                                  |  |                |  | type Product Customer Drawing  |  |  |
| index                     | sheet  |          |      |                                                         |  |                                  |  |                |  |                                |  |  |

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