

PRODUCT NO.
SEE TABLE

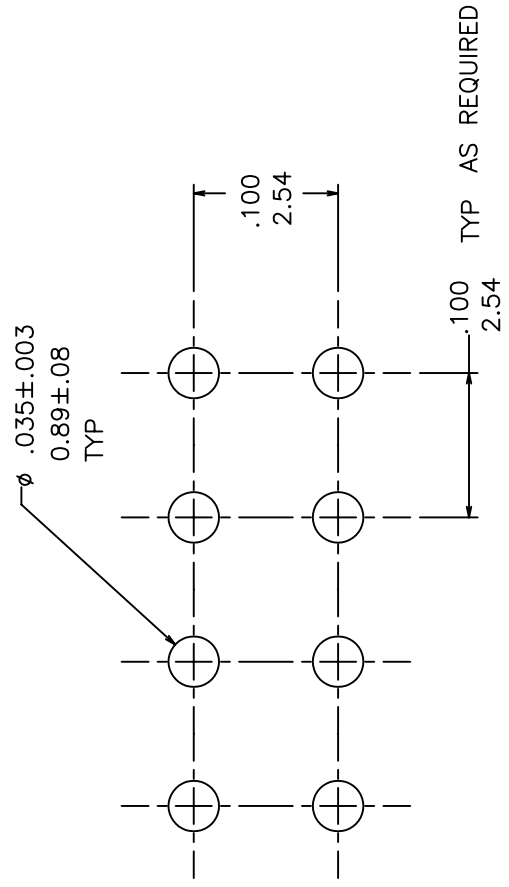
$\sqrt{\text{.005/.13}}$ X
TYP

| mat'l. code | | surface | | tolerance | | projection | | product family | |
|----------------|-----------|----------|------------|---------------------------------------|---|-------------------------|---|--------------------------|--|
| SEE NOTE 1 & 2 | | ISO 1302 | | ISO 406 | | INCH/MM | | CARD CONN | |
| ecn no | | date | | tolerances unless otherwise specified | | title | | type | |
| W | EX-N-1388 | DCS | 2013-01-28 | .xxx.01/.xx.3 | | VERT. CARD CONNECTOR | | sheet 1 of 6 size | |
| X | EX-N-1414 | DCS | 2013-03-05 | .xxx.0.005/.xxx.13 | | .100/2.54 CTR., DBL ROW | | 65781 | |
| S | V03-1072 | LP | 9/25/03 | .xxx.005/.xxx.01 | | scale 4:1 | | Product Customer Drawing | |
| T | M05-0216 | ERE | 10/11/05 | M.CLOUSER | | 3/25/94 | | A3 | |
| U | M06-0210 | MHT | 6/03/06 | H. SUNDY | | 3/25/94 | | | |
| V | M07-0143 | ERE | 03/03/07 | H. SUNDY | | 3/25/94 | | | |
| sheet | revision | X | X | X | X | X | X | | |
| index | Sheet | 1 | 2 | 3 | 4 | 5 | 6 | | |

PRODUCT NO.
SEE TABLE

NOTES:

- ① HOUSING MAT'L: FILLED POLYESTER.
FLAME RETARDANT PER UL 94V-0.
COLOR: BLACK.
- ② TERMINAL MATERIAL AND PLATING: SEE TABULATION.
3. RECOMMENDED PIN SIZE: .025±.001/.64±.03 SQUARE.
RECOMMENDED PIN LENGTH: .210±.020/5.33±.51.
4. MARK FCI PART NUMBER AND DATE CODE LEGIBLE
ON TUBE LABEL.
- ⑤ ADD "LF" SUFFIX AT THE END OF PART NUMBER
FOR LEAD FREE OPTION.
- ⑥ THESE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED
IN GS-22-008.
7. THIS PART WILL WITHSTAND EXPOSURE TO 260°C PEAK
TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER,
INFRA-RED OR VAPOR PHASE SOLDER PROCESS.
- ⑧ "THIS PRODUCT HAS 100% TIN PLATING IN THE
INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER
GROWTH IN ALL INTERCONNECT ENVIRONMENTS."



RECOMMENDED HOLE PATTERN
SCALE 4:1

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| | | | | | |
|-------------|----------|---------------------------------------|-----------|--------------------------|----------------|
| mat'l. code | | surface | tolerance | projection | product family |
| ISO 1302 | | ISO 406 | ISO 1101 | ⊕ | CARD CONN |
| itr | | tolerances unless otherwise specified | | title | |
| X | ecn no | dr | angles | VERT. CARD CONNECTOR | |
| | date | | linear | .100/2.54 CTR., DBL ROW | |
| | | | 0°±2' | dwg no | |
| | | dr | M.CLOUSER | sheet 2 of 6 size | |
| | | enfr | H. SUNDY | 65781 | |
| | | chr | H. SUNDY | A3 | |
| | | appd | H. SUNDY | type | |
| sheet | revision | | | Product Customer Drawing | |
| index | sheet | | | | |

| PRODUCT NUMBER | SIZE | DIM A | DIM B | MATERIAL AND PLATING | DIM C | LEAD FREE OPTION |
|----------------|------|---------------|---------------|----------------------|-----------|------------------|
| 65781-001 | | | | UNASSIGNED | | |
| -002 | 2X2 | .100 / 2.54 | .200 / 5.08 | | .140/3.56 | |
| -003 | 2X3 | .200 / 5.08 | .300 / 7.62 | | | |
| -004 | 2X4 | .300 / 7.62 | .400 / 10.16 | | | |
| -005 | 2X5 | .400 / 10.16 | .500 / 12.70 | | | |
| -006 | 2X6 | .500 / 12.70 | .600 / 15.24 | | | |
| -007 | 2X7 | .600 / 15.24 | .700 / 17.78 | | | |
| -008 | 2X8 | .700 / 17.78 | .800 / 20.32 | | | |
| -009 | 2X9 | .800 / 20.32 | .900 / 22.86 | | | |
| -010 | 2X10 | .900 / 22.86 | 1.000 / 25.40 | | | |
| -011 | 2X11 | 1.000 / 25.40 | 1.100 / 27.94 | | | |
| -012 | 2X12 | 1.100 / 27.94 | 1.200 / 30.48 | | | |
| -013 | 2X13 | 1.200 / 30.48 | 1.300 / 33.02 | | | |
| -014 | 2X14 | 1.300 / 33.02 | 1.400 / 35.56 | | | |
| -015 | 2X15 | 1.400 / 35.56 | 1.500 / 38.10 | | | |
| -016 | 2X16 | 1.500 / 38.10 | 1.600 / 40.64 | | | |
| -017 | 2X17 | 1.600 / 40.64 | 1.700 / 43.18 | | | |
| -018 | 2X18 | 1.700 / 43.18 | 1.800 / 45.72 | | | |
| -019 | 2X19 | 1.800 / 45.72 | 1.900 / 48.26 | | | |
| -020 | 2X20 | 1.900 / 48.26 | 2.000 / 50.80 | | | |
| -021 | 2X21 | 2.000 / 50.80 | 2.100 / 53.34 | | | |
| -022 | 2X22 | 2.100 / 53.34 | 2.200 / 55.88 | | | |
| -023 | 2X23 | 2.200 / 55.88 | 2.300 / 58.42 | | | |
| -024 | 2X24 | 2.300 / 58.42 | 2.400 / 60.96 | | | |
| -025 | 2X25 | 2.400 / 60.96 | 2.500 / 63.50 | | | |
| -026 | 2X26 | 2.500 / 63.50 | 2.600 / 66.04 | | | |
| -027 | 2X27 | 2.600 / 66.04 | 2.700 / 68.58 | | | |
| -028 | 2X28 | 2.700 / 68.58 | 2.800 / 71.12 | | | |
| -029 | 2X29 | 2.800 / 71.12 | 2.900 / 73.66 | | | |
| -030 | 2X30 | 2.900 / 73.66 | 3.000 / 76.20 | | | |
| -031 | 2X31 | 3.000 / 76.20 | 3.100 / 78.74 | | | |
| -032 | 2X32 | 3.100 / 78.74 | 3.200 / 81.28 | | | |
| -033 | 2X33 | 3.200 / 81.28 | 3.300 / 83.82 | | | |
| -034 | 2X34 | 3.300 / 83.82 | 3.400 / 86.36 | | | |
| -035 | 2X35 | 3.400 / 86.36 | 3.500 / 88.90 | | | |
| -036 | 2X36 | 3.500 / 88.90 | 3.600 / 91.44 | | | |

OBS

NOTE 5,6

NOTE 5,6

BODY MAT'L: BRASS
 BODY PLATING: 40u"/1.02u MIN
 THICK C.: GOLD INSIDE CONTACT
 AREA, 2u"/051u GOLD FLASH MIN ON REST
 OF TERMINAL BODY, OVER 50u/
 1.27u MIN NICKEL
 SPRING MAT'L: BeCu HEAT TREATED
 SPRING PLATING: GOLD FLASH

BODY MAT'L: BRASS
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 SPRING MAT'L: BeCu HEAT TREATED
 SPRING PLATING: GOLD FLASH

| | | | | | | | | | |
|-------------|--|-----------|--|-----------|--|------------|--|--------------------------|--|
| mat'l. code | | surface | | tolerance | | projection | | product family | |
| ISO 1302 | | ISO 406 | | ISO 1101 | | INCH/MM | | CARD CONN | |
| ecn no | | angles | | linear | | scale | | title | |
| dr | | M.CLOUSER | | 3/25/94 | | 4:1 | | VERT. CARD CONNECTOR | |
| engr | | H. SUNDY | | 3/25/94 | | | | .100/2.54 CTR., DBL ROW | |
| chr | | H. SUNDY | | 3/25/94 | | | | dwg no sheet 3 of 6 size | |
| appd | | H. SUNDY | | 3/25/94 | | | | 65781 A3 | |
| sheet | | revision | | type | | Product | | Customer Drawing | |
| index | | sheet | | | | | | | |



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| PRODUCT NUMBER | SIZE | DIM A | DIM B | MATERIAL AND PLATING | DIM C | LEAD FREE OPTION |
|----------------|------|---------------|---------------|----------------------|-----------|------------------|
| 65781-037 | | | | UNASSIGNED | .140/3.56 | |
| -038 | 2X2 | .100 / 2.54 | .200 / 5.08 | | | |
| -039 | 2X3 | .200 / 5.08 | .300 / 7.62 | | | |
| -040 | 2X4 | .300 / 7.62 | .400 / 10.16 | | | |
| -041 | 2X5 | .400 / 10.16 | .500 / 12.70 | | | |
| -042 | 2X6 | .500 / 12.70 | .600 / 15.24 | | | |
| -043 | 2X7 | .600 / 15.24 | .700 / 17.78 | | | |
| -044 | 2X8 | .700 / 17.78 | .800 / 20.32 | | | |
| -045 | 2X9 | .800 / 20.32 | .900 / 22.86 | | | |
| -046 | 2X10 | .900 / 22.86 | 1.000 / 25.40 | | | |
| -047 | 2X11 | 1.000 / 25.40 | 1.100 / 27.94 | | | |
| -048 | 2X12 | 1.100 / 27.94 | 1.200 / 30.48 | | | |
| -049 | 2X13 | 1.200 / 30.48 | 1.300 / 33.02 | | | |
| -050 | 2X14 | 1.300 / 33.02 | 1.400 / 35.56 | | | |
| -051 | 2X15 | 1.400 / 35.56 | 1.500 / 38.10 | | | |
| -052 | 2X16 | 1.500 / 38.10 | 1.600 / 40.64 | | | |
| -053 | 2X17 | 1.600 / 40.64 | 1.700 / 43.18 | | | |
| -054 | 2X18 | 1.700 / 43.18 | 1.800 / 45.72 | | | |
| -055 | 2X19 | 1.800 / 45.72 | 1.900 / 48.26 | | | |
| -056 | 2X20 | 1.900 / 48.26 | 2.000 / 50.80 | | | |
| -057 | 2X21 | 2.000 / 50.80 | 2.100 / 53.34 | | | |
| -058 | 2X22 | 2.100 / 53.34 | 2.200 / 55.88 | | | |
| -059 | 2X23 | 2.200 / 55.88 | 2.300 / 58.42 | | | |
| -060 | 2X24 | 2.300 / 58.42 | 2.400 / 60.96 | | | |
| -061 | 2X25 | 2.400 / 60.96 | 2.500 / 63.50 | | | |
| -062 | 2X26 | 2.500 / 63.50 | 2.600 / 66.04 | | | |
| -063 | 2X27 | 2.600 / 66.04 | 2.700 / 68.58 | | | |
| -064 | 2X28 | 2.700 / 68.58 | 2.800 / 71.12 | | | |
| -065 | 2X29 | 2.800 / 71.12 | 2.900 / 73.66 | | | |
| -066 | 2X30 | 2.900 / 73.66 | 3.000 / 76.20 | | | |
| -067 | 2X31 | 3.000 / 76.20 | 3.100 / 78.74 | | | |
| -068 | 2X32 | 3.100 / 78.74 | 3.200 / 81.28 | | | |
| -069 | 2X33 | 3.200 / 81.28 | 3.300 / 83.82 | | | |
| -070 | 2X34 | 3.300 / 83.82 | 3.400 / 86.36 | | | |
| -071 | 2X35 | 3.400 / 86.36 | 3.500 / 88.90 | | | |
| 65781-072 | 2X36 | 3.500 / 88.90 | 3.600 / 91.44 | | | |

| | | | | | |
|-------------|----------|----------|---------------------------------------|------------|--------------------------|
| mat'l. code | | surface | tolerance | projection | product family |
| ISO 1302 | ISO 406 | ISO 1101 | ISO 1101 | projection | CARD CONN |
| ecn no | dr | date | angles | linear | title |
| | | | tolerances unless otherwise specified | INCH/MM | VERT. CARD CONNECTOR |
| | | | 0°±2' | scale 4:1 | .100/2.54 CTR., DBL ROW |
| | | | dr | M.CLOUSER | dwg no |
| | | | engr | H. SUNDY | sheet 4 of 6 size |
| | | | chr | H. SUNDY | 65781 |
| | | | appd | H. SUNDY | A3 |
| sheet | revision | | | | Product Customer Drawing |
| index | sheet | | | | |

| PRODUCT NUMBER | SIZE | DIM A | DIM B | MATERIAL AND PLATING | DIM C | LEAD FREE OPTION |
|----------------|------|---------------|---------------|---|-----------|------------------|
| 65781-073 | | | | UNASSIGNED | .140/3.56 | NOTE 5,6 |
| -074 | 2X2 | .100 / 2.54 | .200 / 5.08 | BODY MAT'L: Cu Ni 10u"/.25u Au FLASH INSIDE BODY CONTACT AREA ONLY WITH .001/.03 MIN HIGH GOLD DOT. SPRING PLATING: GOLD FLASH SPRING MAT'L: BeCu HEAT TREAT | .140/3.56 | NOTE 5,6 |
| -075 | 2X3 | .200 / 5.08 | .300 / 7.62 | | | |
| -076 | 2X4 | .300 / 7.62 | .400 / 10.16 | | | |
| -077 | 2X5 | .400 / 10.16 | .500 / 12.70 | | | |
| -078 | 2X6 | .500 / 12.70 | .600 / 15.24 | | | |
| -079 | 2X7 | .600 / 15.24 | .700 / 17.78 | | | |
| -080 | 2X8 | .700 / 17.78 | .800 / 20.32 | | | |
| -081 | 2X9 | .800 / 20.32 | .900 / 22.86 | | | |
| -082 | 2X10 | .900 / 22.86 | 1.000 / 25.40 | | | |
| -083 | 2X11 | 1.000 / 25.40 | 1.100 / 27.94 | | | |
| -084 | 2X12 | 1.100 / 27.94 | 1.200 / 30.48 | | | |
| -085 | 2X13 | 1.200 / 30.48 | 1.300 / 33.02 | | | |
| -086 | 2X14 | 1.300 / 33.02 | 1.400 / 35.56 | | | |
| -087 | 2X15 | 1.400 / 35.56 | 1.500 / 38.10 | | | |
| -088 | 2X16 | 1.500 / 38.10 | 1.600 / 40.64 | | | |
| -089 | 2X17 | 1.600 / 40.64 | 1.700 / 43.18 | | | |
| -090 | 2X18 | 1.700 / 43.18 | 1.800 / 45.72 | | | |
| -091 | 2X19 | 1.800 / 45.72 | 1.900 / 48.26 | | | |
| -092 | 2X20 | 1.900 / 48.26 | 2.000 / 50.80 | | | |
| -093 | 2X21 | 2.000 / 50.80 | 2.100 / 53.34 | | | |
| -094 | 2X22 | 2.100 / 53.34 | 2.200 / 55.88 | | | |
| -095 | 2X23 | 2.200 / 55.88 | 2.300 / 58.42 | | | |
| -096 | 2X24 | 2.300 / 58.42 | 2.400 / 60.96 | | | |
| -097 | 2X25 | 2.400 / 60.96 | 2.500 / 63.50 | | | |
| -098 | 2X26 | 2.500 / 63.50 | 2.600 / 66.04 | | | |
| -099 | 2X27 | 2.600 / 66.04 | 2.700 / 68.58 | | | |
| -100 | 2X28 | 2.700 / 68.58 | 2.800 / 71.12 | | | |
| -101 | 2X29 | 2.800 / 71.12 | 2.900 / 73.66 | | | |
| -102 | 2X30 | 2.900 / 73.66 | 3.000 / 76.20 | | | |
| -103 | 2X31 | 3.000 / 76.20 | 3.100 / 78.74 | | | |
| -104 | 2X32 | 3.100 / 78.74 | 3.200 / 81.28 | | | |
| -105 | 2X33 | 3.200 / 81.28 | 3.300 / 83.82 | | | |
| -106 | 2X34 | 3.300 / 83.82 | 3.400 / 86.36 | | | |
| -107 | 2X35 | 3.400 / 86.36 | 3.500 / 88.90 | | | |
| -108 | 2X36 | 3.500 / 88.90 | 3.600 / 91.44 | | | |
| 65781-108 | | | | BODY MAT'L: Cu Ni 10u"/.25u Au FLASH INSIDE BODY CONTACT AREA ONLY WITH .001/.03 MIN HIGH GOLD DOT. SPRING PLATING: GOLD FLASH SPRING MAT'L: BeCu HEAT TREAT | .140/3.56 | NOTE 5,6 |

| PRODUCT NUMBER | SIZE | DIM A | DIM B | MATERIAL AND PLATING | DIM C | LEAD FREE OPTION |
|----------------|------|---------------|---------------|---|-----------|------------------|
| 65781-149 | 2X5 | .400/10.16 | .500/12.70 | BRASS 100u/2.54u THICK SN PLATE SPRING MAT'L: BeCu HEAT TREATED SPRING PLATING: 30u/76u MIN ELECTROLESS TIN CONTACT BODY MATERIAL: BRASS CONTACT BODY PLATING: 30u/0.76u MIN GOLD INSIDE CONTACT AREA AND GOLD FLASH ON TAILS OVER 50u/1.27u MIN NICKEL SPRING MATERIAL: BeCu HEAT TREATED SPRING PLATING: GOLD FLASH ON CONTACT AREA | .115/2.92 | |
| 65781-151 | 2X7 | .600/15.24 | .700/17.78 | | .115/2.92 | NOTES 5,6,8 |
| 65781-152 | 2X8 | .700/17.78 | .800/20.32 | | .115/2.92 | |
| 65781-153 | 2X13 | 1.200 / 30.48 | 1.300 / 33.02 | | .140/3.56 | |
| 65781-154 | 2X15 | 1.400 / 35.56 | 1.500 / 38.10 | | .140/3.56 | |
| 65781-155 | 2X17 | 1.600 / 40.64 | 1.700 / 43.18 | | .140/3.56 | NOTE 5,6 |
| 65781-156 | 2X18 | 1.700 / 43.18 | 1.800 / 45.72 | | .140/3.56 | |
| 65781-157 | 2X20 | 1.900 / 48.26 | 2.000 / 50.80 | | .140/3.56 | |
| 65781-158 | 2X30 | 2.900 / 73.66 | 3.000 / 76.20 | | .140/3.56 | |
| 65781-159 | 2X10 | .900 / 22.86 | 1.000 / 25.40 | | .140/3.56 | |
| 65781-160 | 2X5 | .400 / 10.16 | .500 / 12.70 | .140/3.56 | | |

| mat'l. code | | surface | tolerance | projection | product family |
|-------------|----------|----------|---------------------------------------|-------------------------|-------------------|
| ISO 1302 | ISO 406 | ISO 1101 | ISO 1101 | | CARD CONN |
| ecn no | dr | date | tolerances unless otherwise specified | title | |
| X | | | linear | VERT. CARD CONNECTOR | |
| | | | angles | .100/2.54 CTR., DBL ROW | |
| | | | 0±2 | dwg no | sheet 6 of 6 size |
| | | | M.CLOUSER | 65781 | A3 |
| | | | engr H. SUNDY | | |
| | | | chr H. SUNDY | | |
| | | | appd H. SUNDY | | |
| sheet | revision | | | | |
| index | sheet | | | | |

