

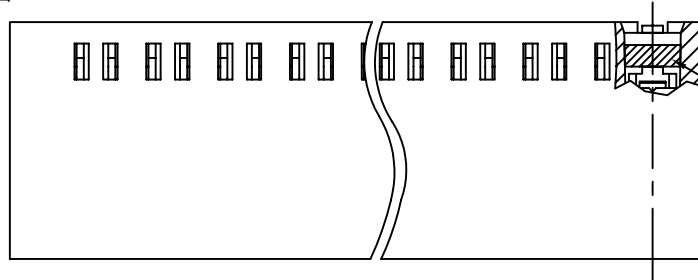


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PRODUCT NO

SEE TABLE

OPTIONAL  
INSULATION  
PLUG

LENGTH

 $B \pm .020$   
0.51 $A \pm .010$   
0.25 $.070$   
1.78  
REF.  
TYP. $.100$  TYP.  
2.54 $.046$   
1.17  
SQUARE  
CONTACT  
OPENING  
TYP. $.100$   
2.54 $.069$   
1.75

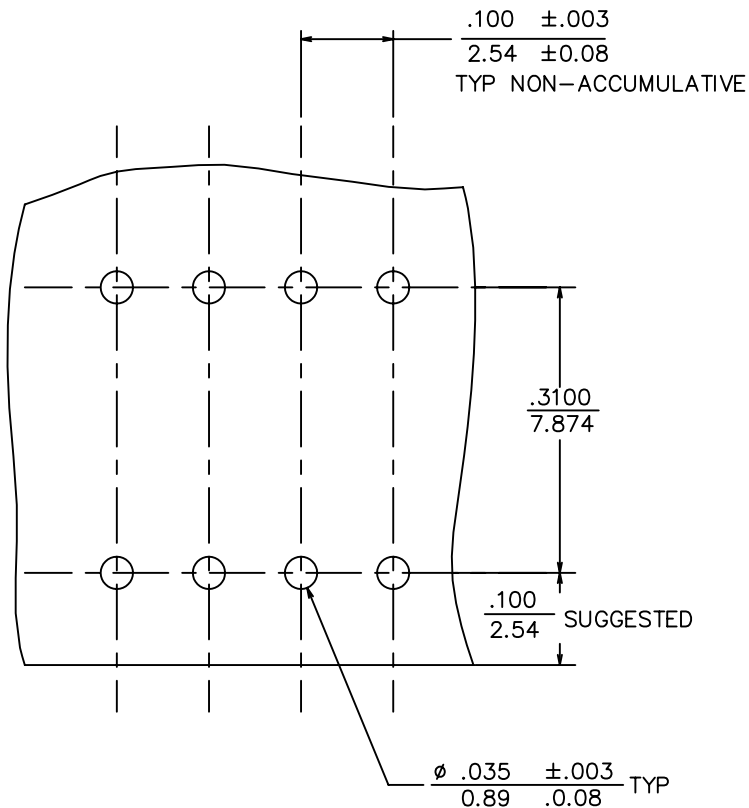
90° REF. TYP.

PRINTED  
CIRCUIT  
BOARD $.029$   
0.74  
REF.  
TYP.WIDTH  
 $.33$   
8.4HEIGHT  
 $.24$   
6.1OPTIONAL  
INSULATION  
PLUG  
SEE TABLE90°±5°  
TYP $.115 \pm .010$   
2.92 ±0.25  
LEG LENGTH $.310$  REF.  
7.87  
AT BOTTOM OF HOUSING

|             |             |     |            |            |                                       |                     |            |                                        |  |  |
|-------------|-------------|-----|------------|------------|---------------------------------------|---------------------|------------|----------------------------------------|--|--|
| mat'l. code |             |     |            | surface    |                                       | tolerance           | projection | product family                         |  |  |
| -           |             |     |            | ISO 1302 ✓ |                                       | ISO 406<br>ISO 1101 |            | CARD CONN                              |  |  |
| ltr         | ecn         | no  | dr         | date       | tolerances unless otherwise specified |                     | INCH/MM    | title                                  |  |  |
| P           | ELX-N-14417 | DCS | 2013-02-05 |            | angles                                | linear              |            | 2 x .100/2.54 HORIZ.<br>CARD CONNECTOR |  |  |
| J           | M05-018     | MHT | 8/20/05    | 0°±2°      |                                       |                     | scale 4:1  |                                        |  |  |
| K           | M06-0117    | AEA | 6/26/06    | dr         | B. ASHREFI                            | 10/12/81            | FCI        | dwg no                                 |  |  |
| L           | M07-0137    | MHT | 2/26/07    | enrg       | D. NEIDICH                            | 10/12/81            |            | 67117                                  |  |  |
| M           | M08-0232    | MHT | 8/14/08    | chr        | D. NEIDICH                            | 10/12/81            |            | A3                                     |  |  |
| N           | M09-0093    | MHT | 6/22/09    | appd       | D. NEIDICH                            | 10/12/81            |            | type Product Customer Drawing          |  |  |
| sheet       | revision    | P   | P          | P          | P                                     | P                   |            |                                        |  |  |
| index       | sheet       | 1   | 2          | 3          | 5                                     | 5                   | 6          |                                        |  |  |

PRODUCT NO

SEE TABLE

FIGURE 1  
SCALE 5/1

- ⑤ ADD "LF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
- ⑥ THESE PRODUCT MEETS 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 A 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 WISKER GROWTH IN ALL INTERCONNECT REQUIREMENTS
9. PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

## NOTES.

1. HOUSING MATERIAL.  
FILLED HIGH TEMPERATURE NYLON  
COLOR: BLACK
2. TERMINAL MATERIAL.  
BODY. BRASS .010/0.25 THICK.  
SPRING. BE-CU. HEAT TREATED
- (1) BODY PLATING.  
30 MICROINCH/0.76 MICRON GOLD OR GXT OVER  
50 MICROINCH / 1.27 MICRON NICKEL ON CONTACT AREA  
SOLDERTAIL PLATING: .100 MICROINCH/2.54 MICRON PURE TIN (NOTE 8)  
OVER 50 MICROINCH/1.27 MICRON NICKEL.  
SPRING PLATING. GOLD FLASH
- (2) BODY PLATING.  
30 MICROINCH/0.76 MICRON GOLD OVER  
50 MICROINCH/1.27 MICRON NICKEL ON CONTACT AREA  
SOLDERTAIL PLATING: GOLD FLASH  
SPRING PLATING: GOLD FLASH
3. APPLICATION INFORMATION.  
A. RECOMMENDED MOUNTING HOLE PATTERN IS SHOWN IN FIG."1".  
B. ALL MATING PINS TO BE .025/0.64 SQUARE ON TRUE CENTER OF GIVEN TERMINAL SPACINGS WITHIN .015/0.38 DIA.  
C. SUGGESTED MATING PIN LENGTH .350±.020 / 8.89±0.51
4. TERMINAL MATERIAL.  
BODY. BRASS .010/0.25 THICK.  
SPRING. BE-CU. HEAT TREATED  
BODY PLATING.  
30 MICROINCH / 0.76 MICRON GOLD OVER  
50 MICROINCH/ 1.27 MICRON NICKEL  
IN CONTACT AREA  
SOLDERTAIL PLATING: 3 MICROINCH /0.076 MICRON GOLD OVER 50 MICROINCH/ 1.27 MICRON NICKEL.  
SPRING PLATING. GOLD FLASH

|             |          |    |    |                                       |                     |                      |                          |
|-------------|----------|----|----|---------------------------------------|---------------------|----------------------|--------------------------|
| mat'l. code |          |    |    | surface                               | tolerance           | projection           | product family           |
| -           |          |    |    | ISO 1302                              | ISO 406<br>ISO 1101 | INCH/MM              | CARD CONN                |
| ltr         | ecr      | no | dr | tolerances unless otherwise specified |                     | INCH/MM<br>scale 4:1 | title                    |
| P           |          |    |    | angles                                | linear              |                      | 2 x .100/2.54 HORIZ.     |
|             |          |    |    |                                       |                     |                      | CARD CONNECTOR           |
|             |          |    |    | 0°±2°                                 |                     |                      |                          |
|             |          |    |    | dr                                    | B. ASHREFF          | 10/12/81             | dwg no                   |
|             |          |    |    | enrg                                  | D. NEIDICH          | 10/12/81             | sheet 2 of 6             |
|             |          |    |    | chr                                   | D. NEIDICH          | 10/12/81             | size                     |
|             |          |    |    | appd                                  | D. NEIDICH          | 10/12/81             | A3                       |
| sheet       | revision |    |    |                                       |                     |                      | type                     |
| index       | sheet    |    |    |                                       |                     |                      | Product Customer Drawing |

|                  |  |          |  |       |                       |      |                                  |                                       |                                                                                                     |            |                             |                                                                                                                                                 |  |                                                                                                            |  |                                                 |  |  |  |  |  |  |  |  |  |
|------------------|--|----------|--|-------|-----------------------|------|----------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------|------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|--|--|--|--|--|--|--|--|
| mat'l. code<br>— |  |          |  |       | surface<br>ISO 1302 ✓ |      | tolerance<br>ISO 406<br>ISO 1101 |                                       | projection<br> |            | product family<br>CARD CONN |                                                                                                                                                 |  |                                                                                                            |  |                                                 |  |  |  |  |  |  |  |  |  |
| ltr              |  | ecn no   |  | dr    |                       | date |                                  | tolerances unless otherwise specified |                                                                                                     |            |                             |                                                                                                                                                 |  |  INCH/MM<br>scale 4:1 |  | title<br>2 x .100/2.54 HORIZ.<br>CARD CONNECTOR |  |  |  |  |  |  |  |  |  |
| P                |  |          |  |       |                       |      |                                  | angles                                |                                                                                                     | linear     |                             | $\sqrt{.001 \pm .01} / \sqrt{.001 \pm .03}$<br>$\sqrt{.0004 \pm .005} / \sqrt{.001 \pm .13}$<br>$\sqrt{.0004 \pm .0020} / \sqrt{.001 \pm .051}$ |  |                                                                                                            |  |                                                 |  |  |  |  |  |  |  |  |  |
|                  |  |          |  |       |                       |      |                                  | 0°±2°                                 |                                                                                                     |            |                             |                                                                                                                                                 |  |                                                                                                            |  |                                                 |  |  |  |  |  |  |  |  |  |
|                  |  |          |  |       |                       |      |                                  | dr                                    |                                                                                                     | B. ASHREFI |                             | 10/12/81                                                                                                                                        |  |                       |  | dwg no<br>sheet 3 of 6 size<br>67117 A3         |  |  |  |  |  |  |  |  |  |
|                  |  |          |  |       |                       |      |                                  | enrg                                  |                                                                                                     | D. NEIDICH |                             | 10/12/81                                                                                                                                        |  |                                                                                                            |  |                                                 |  |  |  |  |  |  |  |  |  |
|                  |  |          |  |       |                       |      |                                  | chr                                   |                                                                                                     | D. NEIDICH |                             | 10/12/81                                                                                                                                        |  |                                                                                                            |  |                                                 |  |  |  |  |  |  |  |  |  |
|                  |  |          |  |       |                       |      |                                  | appd                                  |                                                                                                     | D. NEIDICH |                             | 10/12/81                                                                                                                                        |  |                                                                                                            |  | type Product Customer Drawing                   |  |  |  |  |  |  |  |  |  |
| sheet index      |  | revision |  | sheet |                       |      |                                  |                                       |                                                                                                     |            |                             |                                                                                                                                                 |  |                                                                                                            |  |                                                 |  |  |  |  |  |  |  |  |  |

NOTE 5,6

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| PRODUCT NO | NO. OF POS. | DIM A      | DIM B       | INSUL. PLUG |           | LEAD FREE OPTION |
|------------|-------------|------------|-------------|-------------|-----------|------------------|
| 67117-501  | 2X1         | .00/0      | .14/3.56    | YES         |           | NOTE 5,6         |
| -502       | 2X2         | .10/2.54   | .24/6.10    |             | NOTE 4    |                  |
| -503       | 2X3         | .20/5.08   | .34/8.64    |             | NOTE 4    |                  |
| -504       | 2X4         | .30/7.62   | .44/11.18   |             | NOTE 4    |                  |
| -505       | 2X5         | .40/10.16  | .54/13.72   |             | NOTE 2(1) |                  |
| -506       | 2X6         | .60/12.70  | .64/16.26   |             |           |                  |
| -507       | 2X7         | .60/15.24  | .74/18.80   |             |           |                  |
| -508       | 2X8         | .70/17.78  | .84/21.34   |             |           |                  |
| -509       | 2X9         | .80/20.32  | .94/23.88   |             |           |                  |
| -510       | 2X10        | .90/22.86  | 1.04/26.42  |             |           |                  |
| -511       | 2X11        | 1.00/25.40 | 1.14/28.96  |             |           |                  |
| -512       | 2X12        | 1.10/27.94 | 1.24/31.50  |             |           |                  |
| -513       | 2X13        | 1.20/30.48 | 1.34/34.04  |             |           |                  |
| -514       | 2X14        | 1.30/33.02 | 1.44/36.58  |             |           |                  |
| -515       | 2X15        | 1.40/35.56 | 1.54/39.12  |             |           |                  |
| -516       | 2X16        | 1.50/38.10 | 1.64/41.66  |             |           |                  |
| -517       | 2X17        | 1.60/40.64 | 1.74/44.20  |             |           |                  |
| -518       | 2X18        | 1.70/43.18 | 1.84/46.74  |             |           |                  |
| -519       | 2X19        | 1.80/45.72 | 1.94/49.28  |             |           |                  |
| -520       | 2X20        | 1.90/48.26 | 2.04/51.82  |             |           |                  |
| -521       | 2X21        | 2.00/50.80 | 2.14/54.36  |             |           |                  |
| -522       | 2X22        | 2.10/53.34 | 2.24/56.90  |             |           |                  |
| -523       | 2X23        | 2.20/55.88 | 2.34/59.44  |             |           |                  |
| -524       | 2X24        | 2.30/58.42 | 2.44/61.98  |             |           |                  |
| -525       | 2X25        | 2.40/60.96 | 2.54/64.52  |             |           |                  |
| -526       | 2X26        | 2.50/63.50 | 2.64/67.06  |             |           |                  |
| -527       | 2X27        | 2.60/66.04 | 2.74/69.60  |             |           |                  |
| -528       | 2X28        | 2.70/68.58 | 2.84/72.14  |             |           |                  |
| -529       | 2X29        | 2.80/71.12 | 2.94/74.68  |             |           |                  |
| -530       | 2X30        | 2.90/73.66 | 3.04/77.22  |             |           |                  |
| -531       | 2X31        | 3.00/76.20 | 3.14/79.76  |             |           |                  |
| -532       | 2X32        | 3.10/78.74 | 3.24/82.30  |             |           |                  |
| -533       | 2X33        | 3.20/81.28 | 3.34/84.84  |             |           |                  |
| -534       | 2X34        | 3.30/83.82 | 3.44/87.38  |             |           |                  |
| -535       | 2X35        | 3.40/86.36 | 3.54/89.92  |             |           |                  |
| -536       | 2X36        | 3.50/88.90 | 3.64/92.46  |             |           |                  |
| -537       | 2X37        | 3.60/91.44 | 3.74/95.00  |             |           |                  |
| -538       | 2X38        | 3.70/93.98 | 3.84/97.54  |             |           |                  |
| -539       | 2X39        | 3.80/96.52 | 3.94/100.08 |             |           |                  |
| 67117-540  | 2X40        | 3.90/99.06 | 4.04/102.62 | YES         | NOTE 2(1) | NOTE 5,6         |

[illegible]



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form: A3

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2

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4

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PDS: Rev :P

STATUS:Released

Printed: Apr 09, 2013

| PRODUCT NO | NO. OF POS. | DIM A       | DIM B       | INSUL. PLUG | PLATING   | LEAD FREE OPTION |
|------------|-------------|-------------|-------------|-------------|-----------|------------------|
| 67117-541  | 2X41        | 4.00/101.60 | 4.14/105.16 | YES         | NOTE 2(1) | NOTE 5,6         |
| -542       | 2X42        | 4.10/104.14 | 4.24/107.70 |             |           |                  |
| -543       | 2X43        | 4.20/106.68 | 4.34/110.24 |             |           |                  |
| -544       | 2X44        | 4.30/109.22 | 4.44/112.78 |             |           |                  |
| -545       | 2X45        | 4.40/111.76 | 4.54/115.32 |             |           |                  |
| -546       | 2X46        | 4.50/114.30 | 4.64/117.86 |             |           |                  |
| -547       | 2X47        | 4.60/116.84 | 4.74/120.40 |             |           |                  |
| -548       | 2X48        | 4.70/119.38 | 4.84/122.94 |             |           |                  |
| -549       | 2X49        | 4.80/121.92 | 4.94/125.48 |             |           |                  |
| -550       | 2X50        | 4.90/124.46 | 5.04/128.02 |             |           |                  |
| -551       | 2X51        | 5.00/127.00 | 5.14/130.56 |             |           |                  |
| -552       | 2X52        | 5.10/129.54 | 5.24/133.10 |             |           |                  |
| -553       | 2X53        | 5.20/132.08 | 5.34/135.64 |             |           |                  |
| -554       | 2X54        | 5.30/134.62 | 5.44/138.18 |             |           |                  |
| -555       | 2X55        | 5.40/137.16 | 5.54/140.72 |             |           |                  |
| -556       | 2X56        | 5.50/139.70 | 5.64/143.26 |             |           |                  |
| -557       | 2X57        | 5.60/142.24 | 5.74/145.80 |             |           |                  |
| -558       | 2X58        | 5.70/144.78 | 5.84/148.34 |             |           |                  |
| -559       | 2X59        | 5.80/147.32 | 5.94/150.88 |             |           |                  |
| -560       | 2X60        | 5.90/149.86 | 6.04/153.42 |             |           |                  |
| -561       | 2X61        | 6.00/152.40 | 6.14/155.96 |             |           |                  |
| -562       | 2X62        | 6.10/154.94 | 6.24/158.50 |             |           |                  |
| -563       | 2X63        | 6.20/157.48 | 6.34/161.04 |             |           |                  |
| -564       | 2X64        | 6.30/160.02 | 6.44/163.58 |             |           |                  |
| 67117-565  | 2X65        | 6.40/162.56 | 6.54/166.12 | YES         | NOTE 2(1) | NOTE 5,6         |
| 67117-265  | 2X65        | 6.40/162.56 | 6.54/166.12 | YES         | NOTE 2(2) |                  |

|             |                |    |    |            |                                       |            |                               |                   |
|-------------|----------------|----|----|------------|---------------------------------------|------------|-------------------------------|-------------------|
| mat'l. code |                |    |    | surface    | tolerance                             | projection | product family                |                   |
| -           |                |    |    | ISO 1302 ✓ | ISO 406<br>ISO 1101                   |            | CARD CONN                     |                   |
| ltr         | ecn            | no | dr | date       | tolerances unless otherwise specified |            | title                         |                   |
| P           |                |    |    |            | angles                                | INCH/MM    | 2 x .100/2.54 HORIZ.          |                   |
|             |                |    |    |            | linear                                | scale 4:1  | CARD CONNECTOR                |                   |
|             |                |    |    |            | 0'±2'                                 |            |                               |                   |
|             |                |    |    |            | dr                                    |            | dwg no                        | sheet 6 of 6 size |
|             |                |    |    |            | enr                                   |            | 67117                         | A3                |
|             |                |    |    |            | chr                                   |            | type Product Customer Drawing |                   |
|             |                |    |    |            | appd                                  |            |                               |                   |
| sheet index | revision sheet |    |    |            |                                       |            |                               |                   |