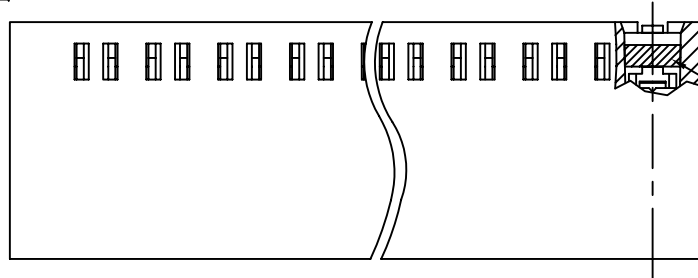


PRODUCT NO

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

$.029$
0.74
REF.
TYP.

90° REF. TYP.

PRINTED
CIRCUIT
BOARD

WIDTH

$.33$
8.4

HEIGHT

$.24$
6.1

OPTIONAL
INSULATION
PLUG
SEE TABLE

90°±5°
TYP

$.115 \pm .010$
2.92 ±0.25
LEG LENGTH

$.310$ REF.
7.87
AT BOTTOM OF HOUSING



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| | | | | | | | | | |
|-------------|--|-----------------|--|------------|--|---------------------------------------|--|--|--|
| mat'l. code | | surface | | tolerance | | projection | | product family | |
| - | | ISO 1302 ✓ | | ISO 406 | | ISO 1101 | | CARD CONN | |
| ltr | | ecn nldr | | date | | tolerances unless otherwise specified | | title | |
| P | | ELX-N-14417 DCS | | 2013-02-05 | | angles linear | | 2 x .100/2.54 HORIZ. 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 | |
| L | | M07-0137 MHT | | 2/26/07 | | enr | | D. NEIDICH 10/12/81 | |
| M | | M08-0232 MHT | | 8/14/08 | | chr | | D. NEIDICH 10/12/81 | |
| N | | M09-0093 MHT | | 6/22/09 | | appd | | D. NEIDICH 10/12/81 | |
| sheet | | revision | | P | | P | | P | |
| index | | sheet | | 1 | | 2 | | 3 | |
| | | | | 4 | | 5 | | 6 | |



dwg no 67117 sheet 1 of 6 size A3
type Product Customer Drawing

PRODUCT NO

SEE TABLE

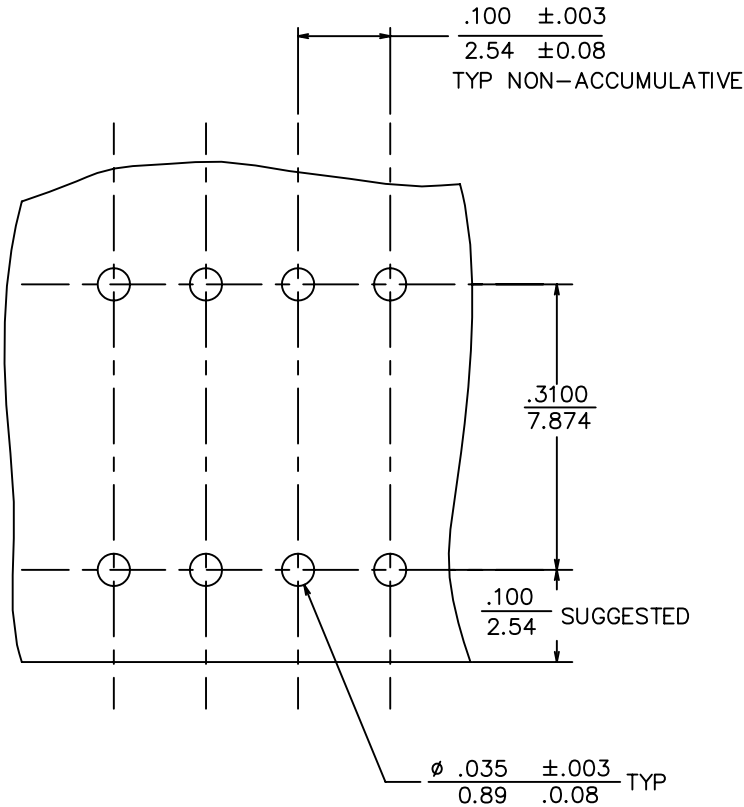


FIGURE 1
SCALE 5/1

- 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



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| | | | | | | | | | |
|-------------|--|------------|--|---------------------|--|------------|--|--|--|
| mat'l. code | | surface | | tolerance | | projection | | product family | |
| - | | ISO 1302 ✓ | | ISO 406 ISO 1101 | | INCH/MM | | CARD CONN | |
| lfr | | ecn no | | dr | | date | | title | |
| | | | | | | | | 2 x .100/2.54 HORIZ. CARD CONNECTOR | |
| P | | angles | | linear | | INCH/MM | | dwg no | |
| | | | | | | scale 4:1 | | sheet 2 of 6 size | |
| | | | | | | | | 67117 A3 | |
| | | | | | | | | type Product Customer Drawing | |
| sheet | | revision | | dr | | enr | | chr | |
| index | | sheet | | app | | D. NEIDICH | | 10/12/81 | |

| PRODUCT NO | NO. OF POS. | DIM A | DIM B | INSUL. PLUG | PLATING | LEAD FREE OPTION |
|------------|-------------|------------|-------------|-------------|-----------|------------------|
| 67117-001 | 2X1 | .00/0 | .14/3.56 | NO | NOTE 4 | NOTE 5,6 |
| -002 | 2X2 | .10/2.54 | .24/6.10 | NO | NOTE 4 | |
| -003 | 2X3 | .20/5.08 | .34/8.64 | | NOTE 4 | |
| -004 | 2X4 | .30/7.62 | .44/11.18 | | NOTE 4 | |
| -005 | 2X5 | .40/10.16 | .54/13.72 | | NOTE 2(1) | |
| -006 | 2X6 | .50/12.70 | .64/16.26 | | | |
| -007 | 2X7 | .60/15.24 | .74/18.80 | | | |
| -008 | 2X8 | .70/17.78 | .84/21.32 | | | |
| -009 | 2X9 | .80/20.32 | .94/23.88 | | | |
| -010 | 2X10 | .90/22.86 | 1.04/26.42 | | | |
| -011 | 2X11 | 1.00/25.40 | 1.14/28.96 | | | |
| -012 | 2X12 | 1.10/27.94 | 1.24/31.50 | | | |
| -013 | 2X13 | 1.20/30.48 | 1.34/34.04 | | | |
| -014 | 2X14 | 1.30/33.02 | 1.44/36.58 | | | |
| -015 | 2X15 | 1.40/35.56 | 1.54/39.12 | | | |
| -016 | 2X16 | 1.50/38.10 | 1.64/41.66 | | | |
| -017 | 2X17 | 1.60/40.64 | 1.74/44.20 | | | |
| -018 | 2X18 | 1.70/43.18 | 1.84/46.74 | | | |
| -019 | 2X19 | 1.80/45.72 | 1.94/49.29 | | | |
| -020 | 2X20 | 1.90/48.26 | 2.04/51.82 | | | |
| -021 | 2X21 | 2.00/50.80 | 2.14/54.36 | | | |
| -022 | 2X22 | 2.10/53.34 | 2.24/56.90 | | | |
| -023 | 2X23 | 2.20/55.88 | 2.34/59.44 | | | |
| -024 | 2X24 | 2.30/58.42 | 2.44/61.98 | | | |
| -025 | 2X25 | 2.40/60.96 | 2.54/64.52 | | | |
| -026 | 2X26 | 2.50/63.50 | 2.64/67.06 | | | |
| -027 | 2X27 | 2.60/66.04 | 2.74/69.60 | | | |
| -028 | 2X28 | 2.70/68.58 | 2.84/72.14 | | | |
| -029 | 2X29 | 2.80/71.12 | 2.94/74.68 | | | |
| -030 | 2X30 | 2.90/73.66 | 3.04/77.22 | | | |
| -031 | 2X31 | 3.00/76.20 | 3.14/79.76 | | | |
| -032 | 2X32 | 3.10/78.74 | 3.24/82.30 | | | |
| -033 | 2X33 | 3.20/81.28 | 3.34/84.84 | | | |
| -034 | 2X34 | 3.30/83.82 | 3.44/87.38 | | | |
| -035 | 2X35 | 3.40/86.36 | 3.54/89.92 | | | |
| -036 | 2X36 | 3.50/88.90 | 3/64/92.46 | | | |
| -037 | 2X37 | 3.60/91.44 | 3.74/95.00 | | | |
| -038 | 2X38 | 3.70/93.88 | 3.84/97.54 | | | |
| -039 | 2X39 | 3.80/96.52 | 3.94/100.08 | | | |
| 67117-040 | 2X40 | 3.90/99.06 | 4.04/102.62 | NO | NOTE 2(1) | NOTE 5,6 |

| | | | | | | | | | |
|-------------|--|----------------|--|---------------------------------------|--|------------|--|-------------------------------------|--|
| mat'l. code | | surface | | tolerance | | projection | | product family | |
| - | | ISO 1302 ✓ | | ISO 406 | | | | CARD CONN | |
| tr | | ecn no dr date | | tolerances unless otherwise specified | | INCH/MM | | title | |
| P | | | | .XX±.01/.XX±0.3 | | | | 2 x .100/2.54 HORIZ. CARD CONNECTOR | |
| | | | | linear .XXX±.005/.XXX±0.13 | | scale 4:1 | | dwg no | |
| | | | | 0'±2' .XXX±.0020/.XXX±0.05 | | | | sheet 3 of 6 size | |
| | | | | dr B. ASHREFI 10/12/81 | | | | 67117 A3 | |
| | | | | enr D. NEIDICH 10/12/81 | | | | type Product Customer Drawing | |
| | | | | chr D. NEIDICH 10/12/81 | | | | | |
| | | | | app D. NEIDICH 10/12/81 | | | | | |
| sheet index | | revision sheet | | | | | | | |

| PRODUCT NO | NO. OF POS. | DIM A | DIM B | INSUL. PLUG | PLATING | LEAD FREE OPTION |
|------------|-------------|-------------|-------------|-------------|-----------|------------------|
| 67117-041 | 2X41 | 4.00/101.60 | 4.14/105.16 | NO | NOTE 2(1) | NOTE 5,6 |
| -042 | 2X42 | 4.10/104.14 | 4.24/107.70 | | | |
| -043 | 2X43 | 4.20/106.68 | 4.34/110.24 | | | |
| -044 | 2X44 | 4.30/109.22 | 4.44/112.78 | | | |
| -045 | 2X45 | 4.40/111.76 | 4.54/115.32 | | | |
| -046 | 2X46 | 4.50/114.30 | 4.64/117.86 | | | |
| -047 | 2X47 | 4.60/116.84 | 4.74/120.40 | | | |
| -048 | 2X48 | 4.70/119.38 | 4.84/122.94 | | | |
| -049 | 2X49 | 4.80/121.92 | 4.94/125.48 | | | |
| -050 | 2X50 | 4.90/124.46 | 5.04/128.02 | | | |
| -051 | 2X51 | 5.00/127.00 | 5.14/130.56 | | | |
| -052 | 2X52 | 5.10/129.54 | 5.24/133.10 | | | |
| -053 | 2X53 | 5.20/132.08 | 5.34/135.64 | | | |
| -054 | 2X54 | 5.30/134.62 | 5.44/138.18 | | | |
| -055 | 2X55 | 5.40/137.16 | 5.54/140.72 | | | |
| -056 | 2X56 | 5.50/139.70 | 5.64/143.26 | | | |
| -057 | 2X57 | 5.60/142.24 | 5.74/145.80 | | | |
| -058 | 2X58 | 5.70/144.78 | 5.84/148.34 | | | |
| -059 | 2X59 | 5.80/147.32 | 5.94/150.88 | | | |
| -060 | 2X60 | 5.90/149.86 | 6.04/153.42 | | | |
| -061 | 2X61 | 6.00/152.40 | 6.14/155.96 | | | |
| -062 | 2X62 | 6.10/154.94 | 6.24/158.50 | | | |
| -063 | 2X63 | 6.20/157/48 | 6.34/161.04 | | | |
| -064 | 2X64 | 6.30/160.02 | 6.44/163.58 | | | |
| 67117-065 | 2X65 | 6.40/162.56 | 6.54/166.12 | NO | NOTE 2(1) | NOTE 5,6 |
| 67117-132 | 2X32 | 3.10/78.74 | 3.24/82.30 | NO | NOTE 2(2) | |



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| | | | | | | | | | |
|-------------|--|----------------|--|-----------------------|--|------------|--|-------------------------------------|--|
| mat'l. code | | surface | | tolerance | | projection | | product family | |
| - | | ISO 1302 ✓ | | ISO 406 | | INCH/MM | | CARD CONN | |
| ltr | | ecn | | no | | dr | | date | |
| P | | | | | | | | | |
| | | angles | | linear | | scale 4:1 | | title | |
| | | 0°±2' | | .XXX±.01/.XXX±.03 | | | | 2 x .100/2.54 HORIZ. CARD CONNECTOR | |
| | | | | .XXX±.005/.XXX±.013 | | | | dwg no | |
| | | | | .XXXX±.0020/.XXX±.005 | | | | sheet 4 of 6 size | |
| | | dr | | B. ASHREFI | | 10/12/81 | | 67117 | |
| | | enr | | D. NEIDICH | | 10/12/81 | | A3 | |
| | | chr | | D. NEIDICH | | 10/12/81 | | type | |
| | | appd | | D. NEIDICH | | 10/12/81 | | Product Customer Drawing | |
| sheet index | | revision sheet | | | | | | | |



| 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) |

| | | | | | | | | | |
|-------------|--|----------------|--|----------------------|--|------------|--|-------------------------------------|--|
| mat'l. code | | surface | | tolerance | | projection | | product family | |
| - | | ISO 1302 ✓ | | ISO 406 | | INCH/MM | | CARD CONN | |
| tr | | ecn no | | dr | | date | | title | |
| P | | | | | | | | 2 x .100/2.54 HORIZ. CARD CONNECTOR | |
| | | angles | | linear | | scale 4:1 | | dwg no | |
| | | 0'±2' | | .XXX±.01/.XXX±0.3 | | | | sheet 5 of 6 size | |
| | | | | .XXX±.005/.XXX±0.13 | | | | 67117 A3 | |
| | | | | .XXX±.0020/.XXX±0.05 | | | | type Product Customer Drawing | |
| | | dr | | B. ASHREFI | | 10/12/81 | | FCJ | |
| | | enr | | D. NEIDICH | | 10/12/81 | | | |
| | | chr | | D. NEIDICH | | 10/12/81 | | | |
| | | appd | | D. NEIDICH | | 10/12/81 | | | |
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| 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) | |



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|-------------|--|----------------|--|------------|--|------------|--|-------------------------------------|--|
| mat'l. code | | surface | | tolerance | | projection | | product family | |
| - | | ISO 1302 ✓ | | ISO 406 | | | | CARD CONN | |
| ltr | | ecn no | | dr | | date | | title | |
| P | | | | | | | | 2 x .100/2.54 HORIZ. CARD CONNECTOR | |
| | | angles | | linear | | INCH/MM | | | |
| | | | | | | scale 4:1 | | | |
| | | dr | | B. ASHREFI | | 10/12/81 | | dwg no | |
| | | enr | | D. NEIDICH | | 10/12/81 | | sheet 6 of 6 size | |
| | | chr | | D. NEIDICH | | 10/12/81 | | 67117 A3 | |
| | | appd | | D. NEIDICH | | 10/12/81 | | type Product Customer Drawing | |
| sheet index | | revision sheet | | | | | | | |



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