

| ZONE | REV | SCR NUMBER | DESCRIPTION | BY | DATE | APPROVED |
|------|-----|-------------------|----------------------|--------|----------|----------|
| | - | SBAR-6M9PY8.VER01 | NEW RELEASE | HCL | 03/03/06 | D.SMITH |
| | A | MCHU-76HLQV.VER03 | ADDING KEEPOUT ZONES | HCL-GM | 09/19/07 | D.SMITH |

LEFT POLARIZING BACKPLANE MODULE
ASSEMBLY PART NUMBER ASSIGNMENT

345 - X | XX - X X X

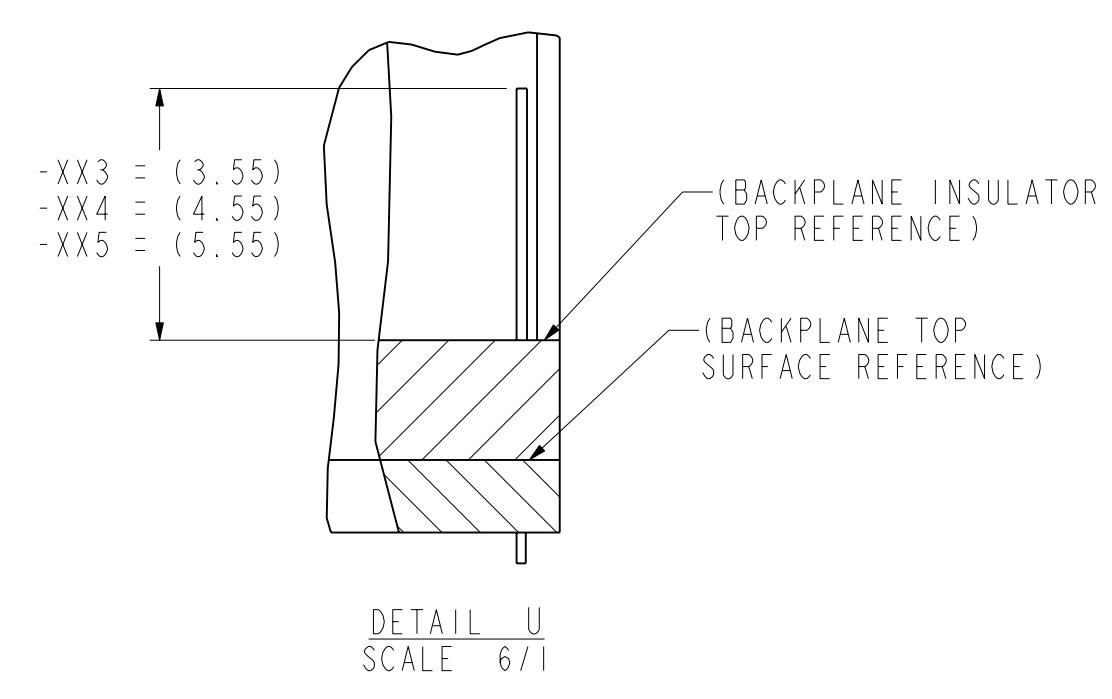
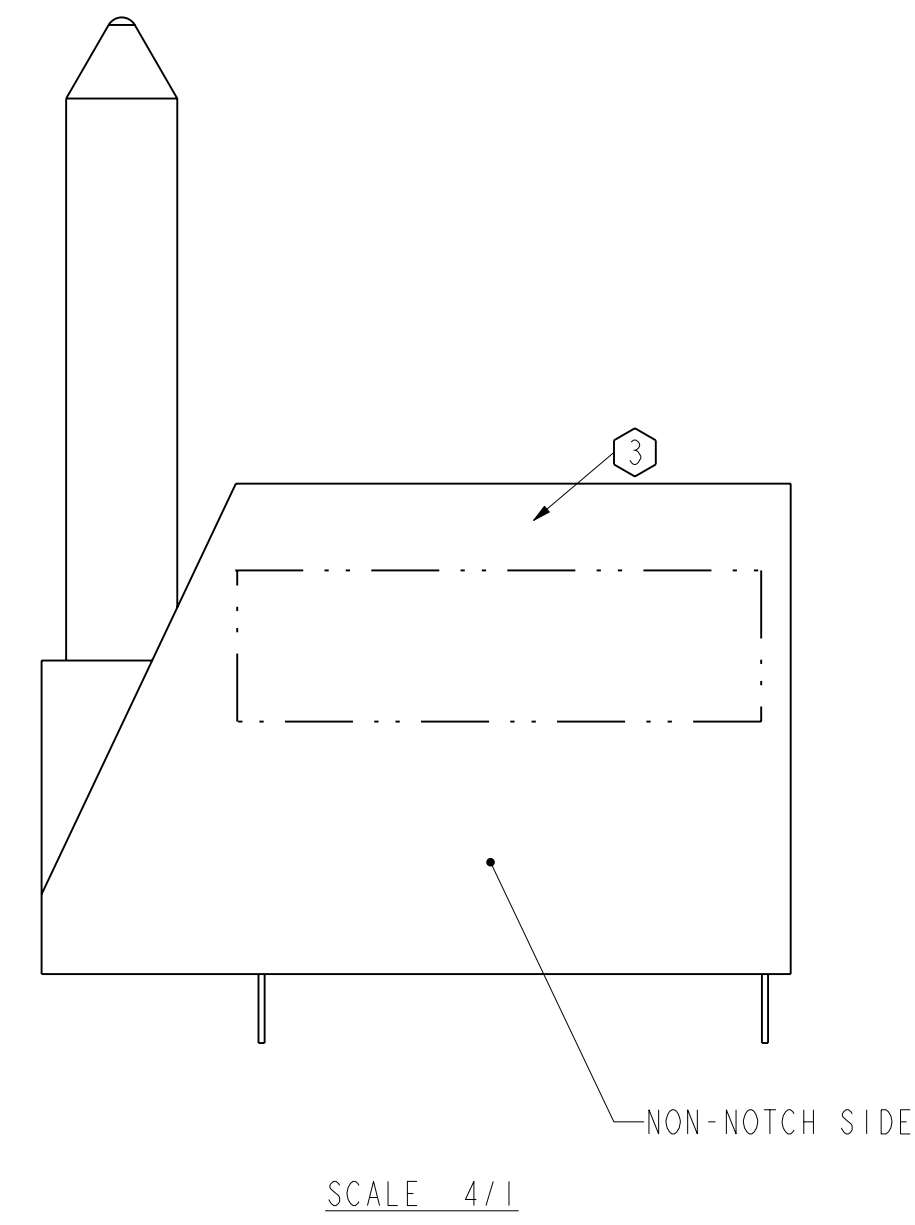
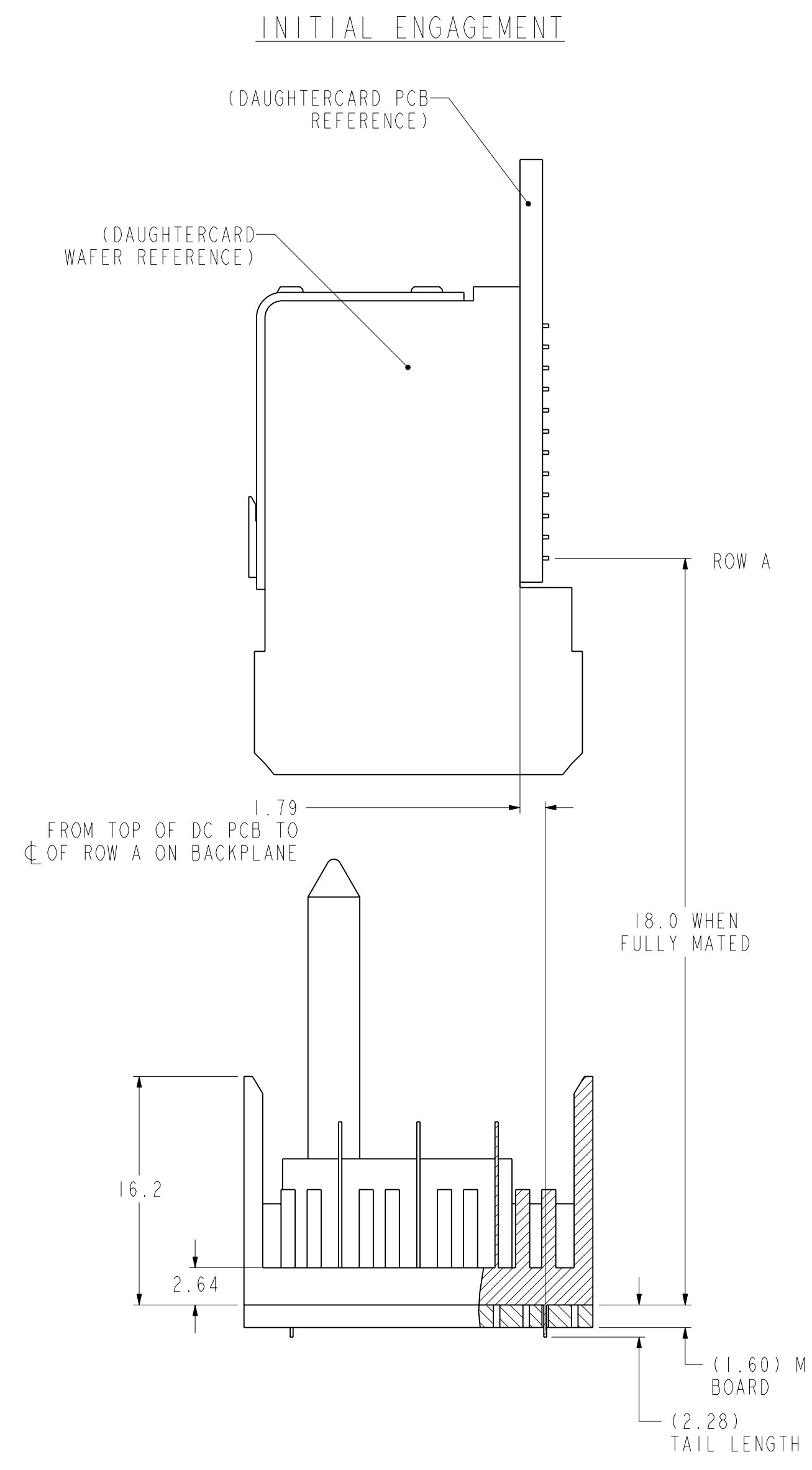
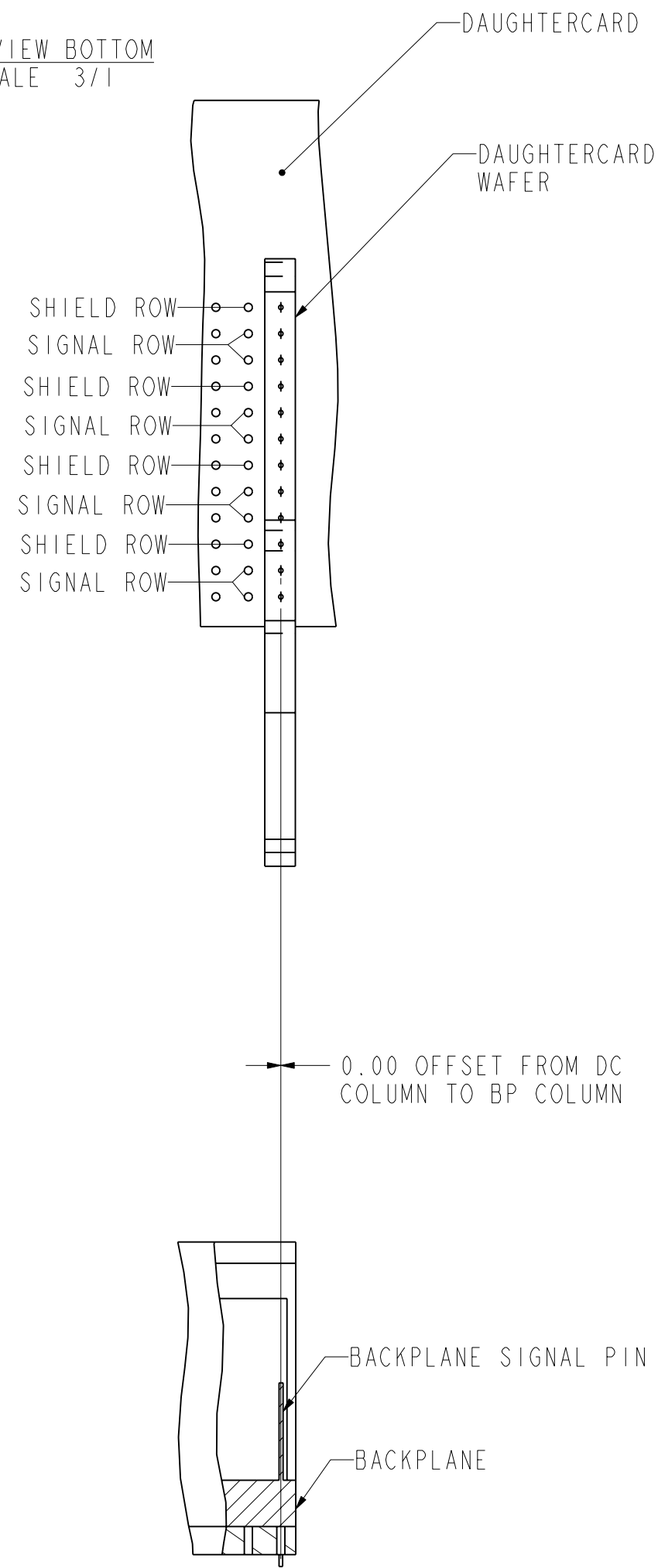
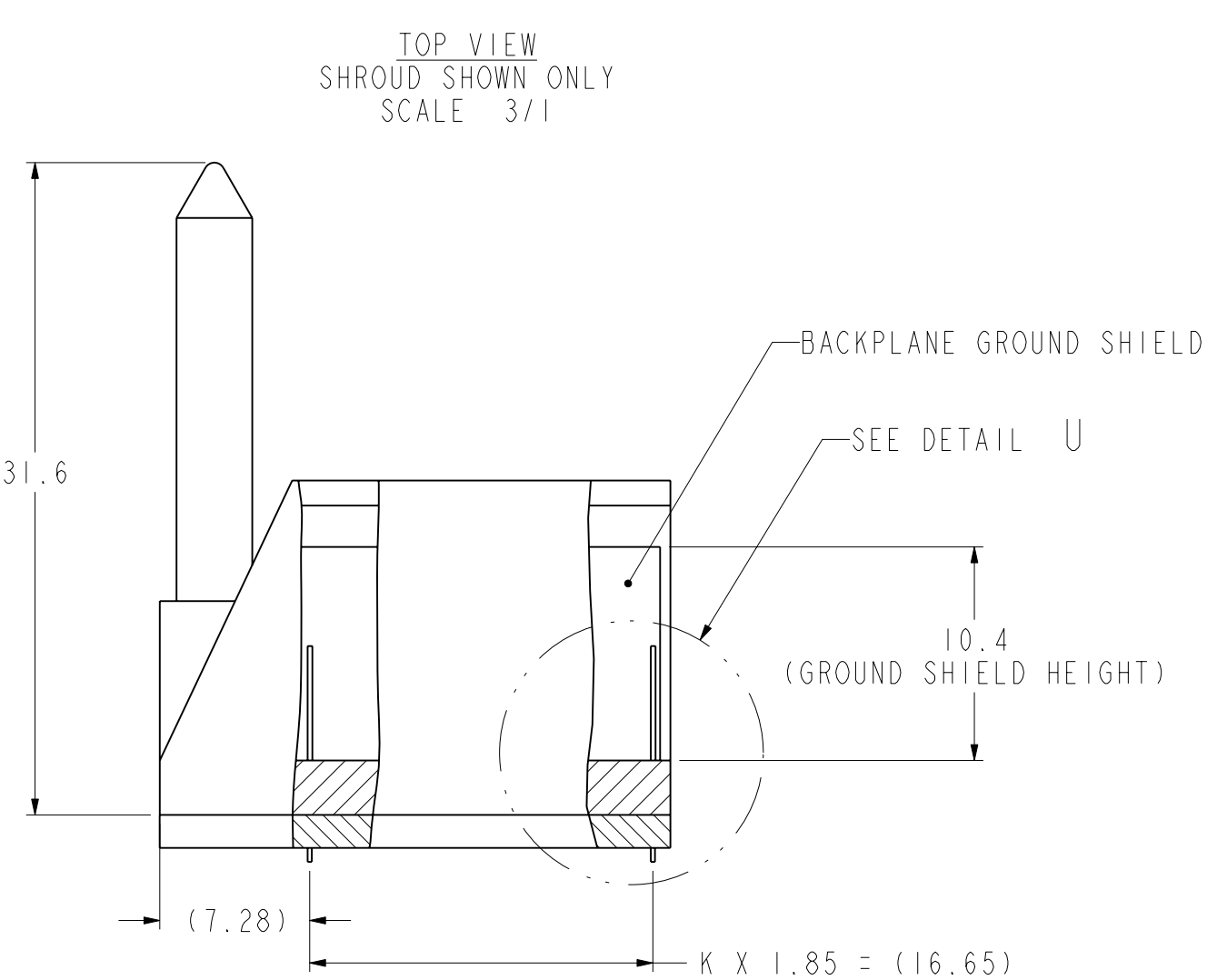
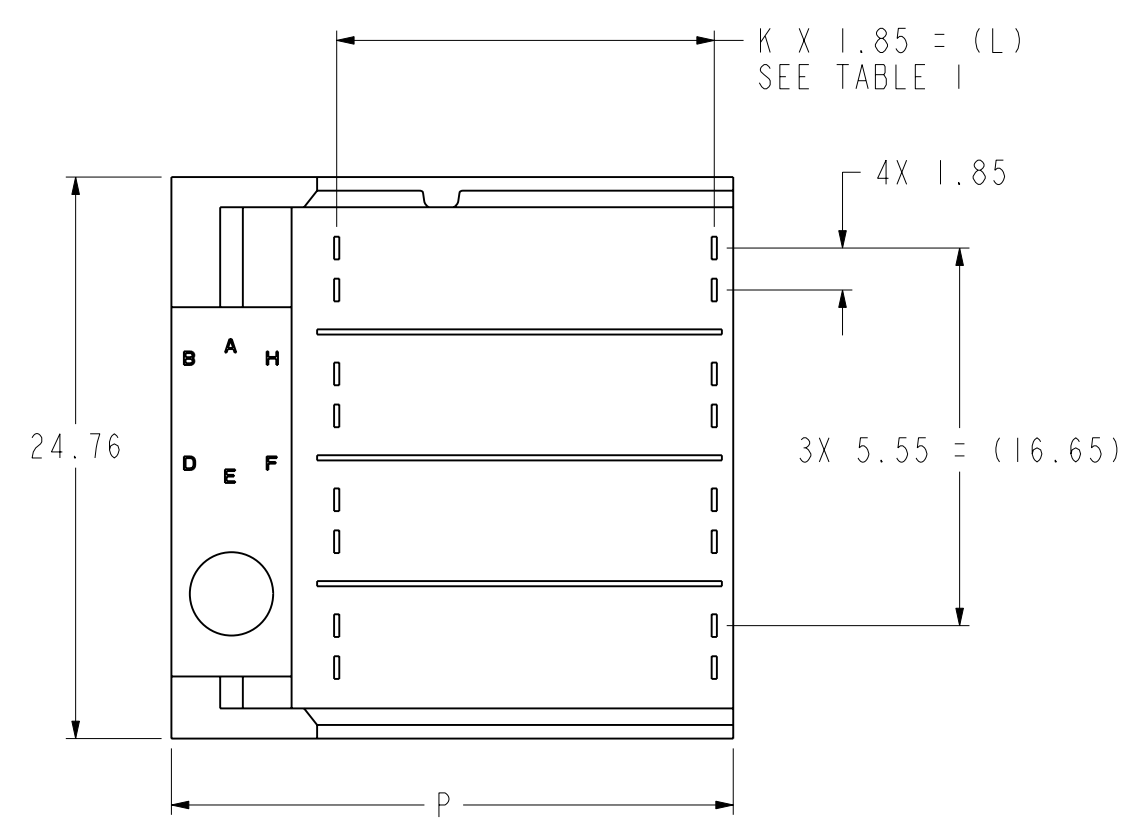
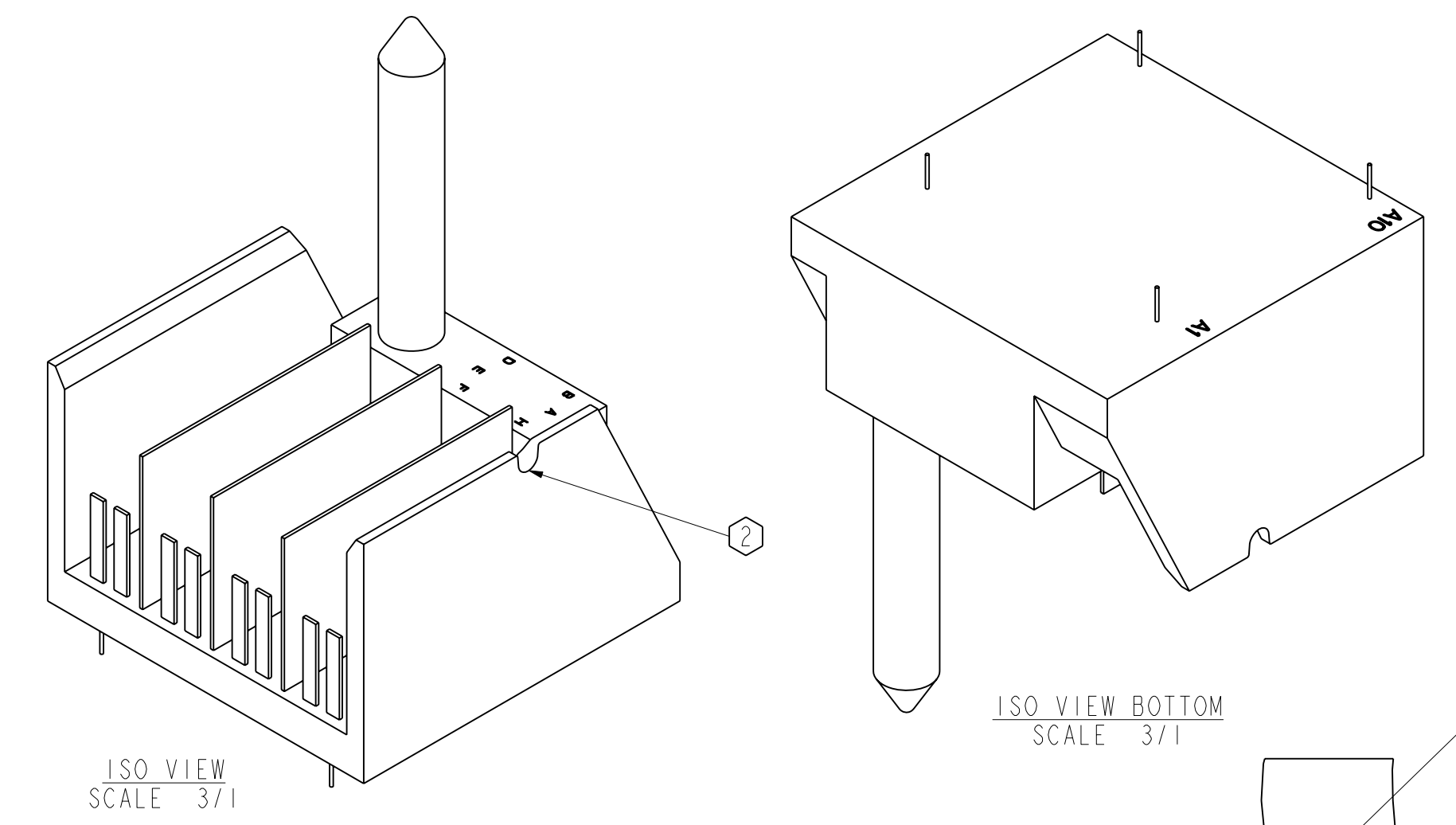
- LOAD $\text{\textcircled{6}}$
- 4 = STANDARD LOADED
- 7 = CUSTOM LOADED
- 8 = LEAD FREE CUSTOM
- MINIMUM PIN WIPE LENGTH, SEE DETAIL U
- 3 = 1.00 mm WIPE
- 4 = 2.00 mm WIPE
- 5 = 3.00 mm WIPE
- PLATING CODE $\text{\textcircled{4}}$
- 0 = 735
- 1 = 732
- 2 = 769
- 3 = 768
- POLARIZATION-SEE TABLE II
- NUMBER OF COLUMNS
- 05 = 5 COLUMN MODULE
- 10 = 10 COLUMN MODULE
- 25 = 25 COLUMN MODULE

TABLE I

| ASSEMBLY PART NUMBER | REV | K | (L) | P | TOTAL NUMBER OF DIFFERENTIAL PAIRS |
|----------------------|-----|----|---------|-------|------------------------------------|
| 345-4105-0XX | - | 4 | (7.40) | 15.53 | 20 |
| 345-4110-0XX | - | 9 | (16.65) | 24.78 | 40 |
| 345-4125-0XX | - | 24 | (44.40) | 52.53 | 100 |

TABLE II

| PART NUMBER 345-41XX-(XXX) | -0XX | -AXX | -BXX | -CXX | -DXX | -EXX | -FXX | -GXX | -HXX |
|-------------------------------|------|------|------|------|------|------|------|------|------|
| POLARIZING PIN ORIENTATION | | | | | | | | | |



- $\text{\textcircled{7}}$ IF THE 4TH DIGIT OF THE PART NUMBER IS A 7 or 8, INDICATING A CUSTOM PART, DIGITS 5 THROUGH 10 ARE NOT SIGNIFICANT AND DO NOT FOLLOW THE PARADIGM IN THE TABLE.
- 6. USE MATING GAUGE PART NUMBER 699-1085-000 AFTER INSERTION ONTO BOARD TO CHECK POSITION OF BLADES.
- 5. FOR REPAIR PROCEDURE FOR SIGNAL BLADE, SEE TB-2099.
- $\text{\textcircled{4}}$ PLATING THICKNESS OF SIGNAL CONTACT AND SHIELD CONTACTS IS DETERMINED BY PLATING CODE:
0 = 735 PER EGS-205 (30 MICROINCH GOLD PLATING ON MATING SURFACES).
1 = 732 PER EGS-205 (50 MICROINCH GOLD PLATING ON MATING SURFACES).
2 = 769 PER EGS-205 (30 MICROINCH GOLD ... LEAD FREE COMPLIANT)
3 = 768 PER EGS-205 (50 MICROINCH GOLD ... LEAD FREE COMPLIANT)
- $\text{\textcircled{3}}$ PART MARKING AS FOLLOWS:
LINE 1: "TCS" AND DATECODE (TCS YYWW).
LINE 2: MODULE PART NUMBER (345-####-###).
LINE 3: WORK ORDER NUMBER (#####), WHERE "*" DENOTES MANUFACTURING LOCATION.
- $\text{\textcircled{2}}$ NOTCH DESIGNATES "ROW A" SIDE OF SHROUD. NOTCH FEATURE ON OPPOSITE SIDE FROM PART MARKING.

NOTES:
1. REFER TO TB-2085 FOR GbX PRODUCT SPECIFICATIONS.

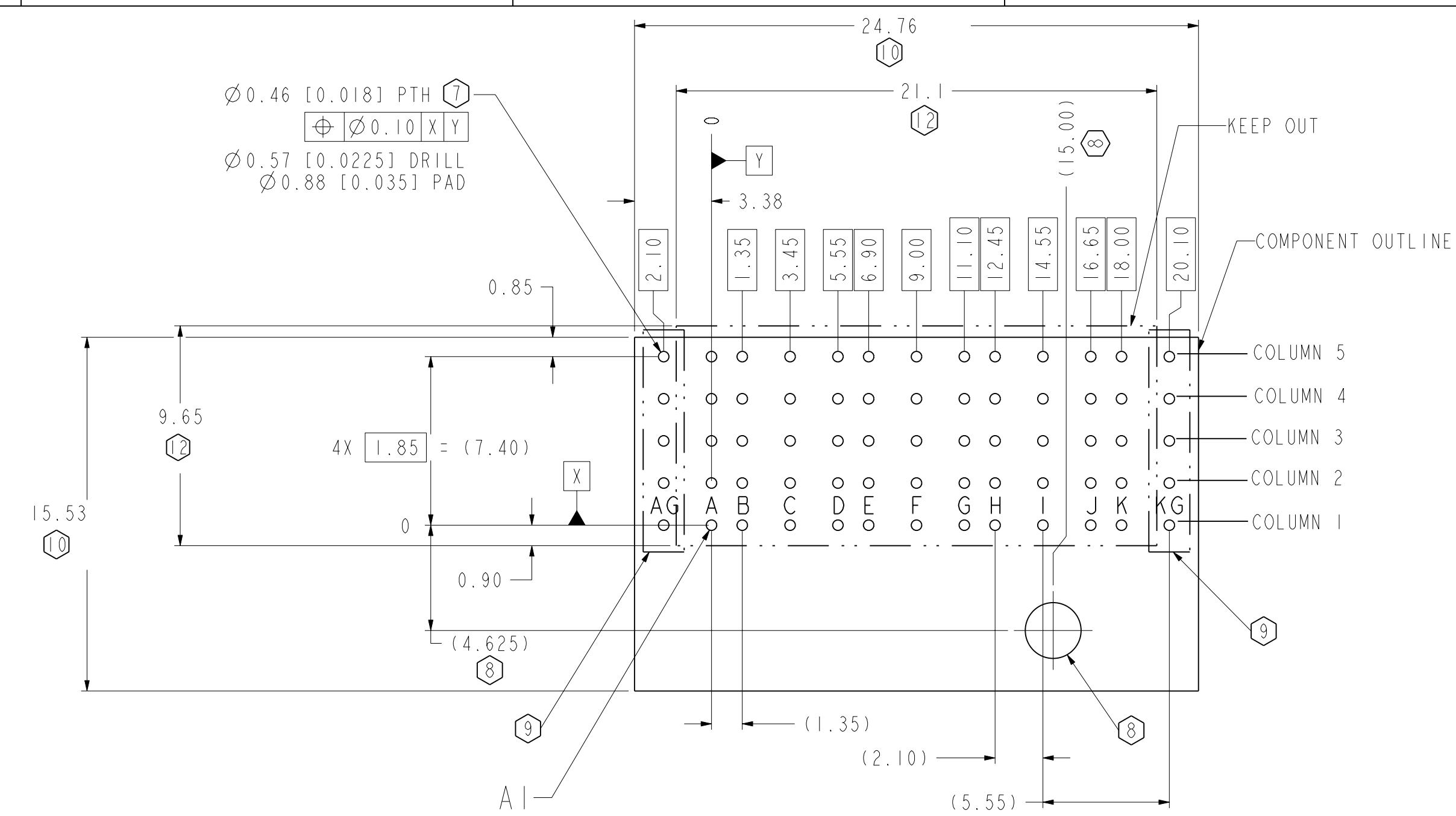
| TOLERANCES | DESIGN 01-10-2006 | M.DEROSA | Amphenol TCS A Division of Amphenol Corporation 44 Simon Street, Nashua, NH, 03060 603.879.3000 | |
|--|-------------------|------------------|---|--|
| 0.0 | ±0.25 | DRAWN 01-11-2006 | M.DEROSA | TITLE GbXE, 4 PAIR DIFFERENTIAL LEFT POLARIZING BACKPLANE MODULE |
| 0.00 | ±0.13 | CHK 01-11-2006 | B.RICHARD | PART NO. SEE TABLE I |
| 0.000 | ± | APVD 01-11-2006 | B.RICHARD | REV A |
| ANGLES | ± | | | DRAWING NO. C-345-4105-500 |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM, DECIMAL MAKER IS PERIOD | | | | |
| CUSTOMER USE DRAWING | | | | |
| SIZE D SCALE 3/1 SHEET 1 OF 2 | | | | |

INTERPRET PER ASME Y14.5M
CODE IDENT 31413

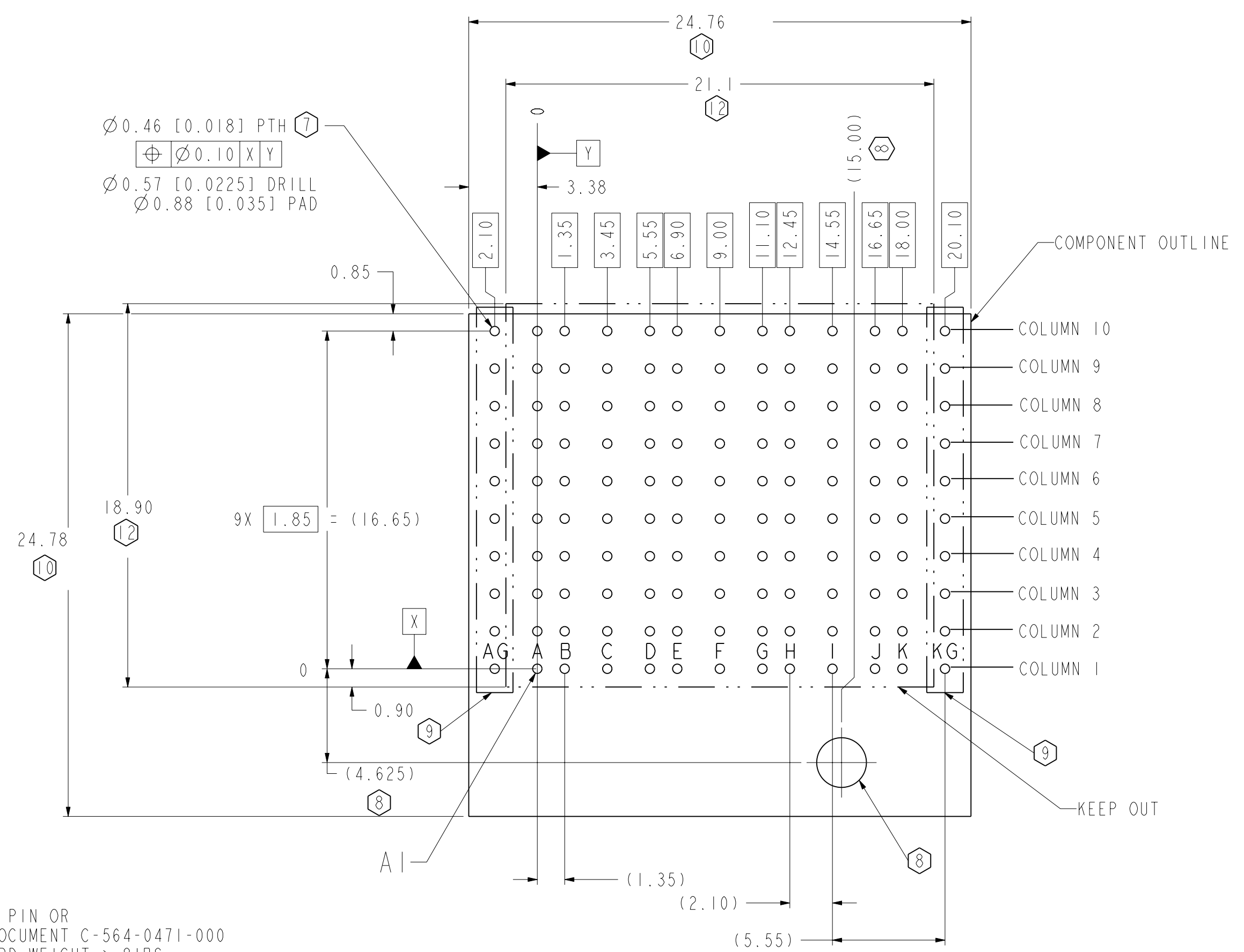
DRW NO. C-345-4105-500

SH 1 REV A

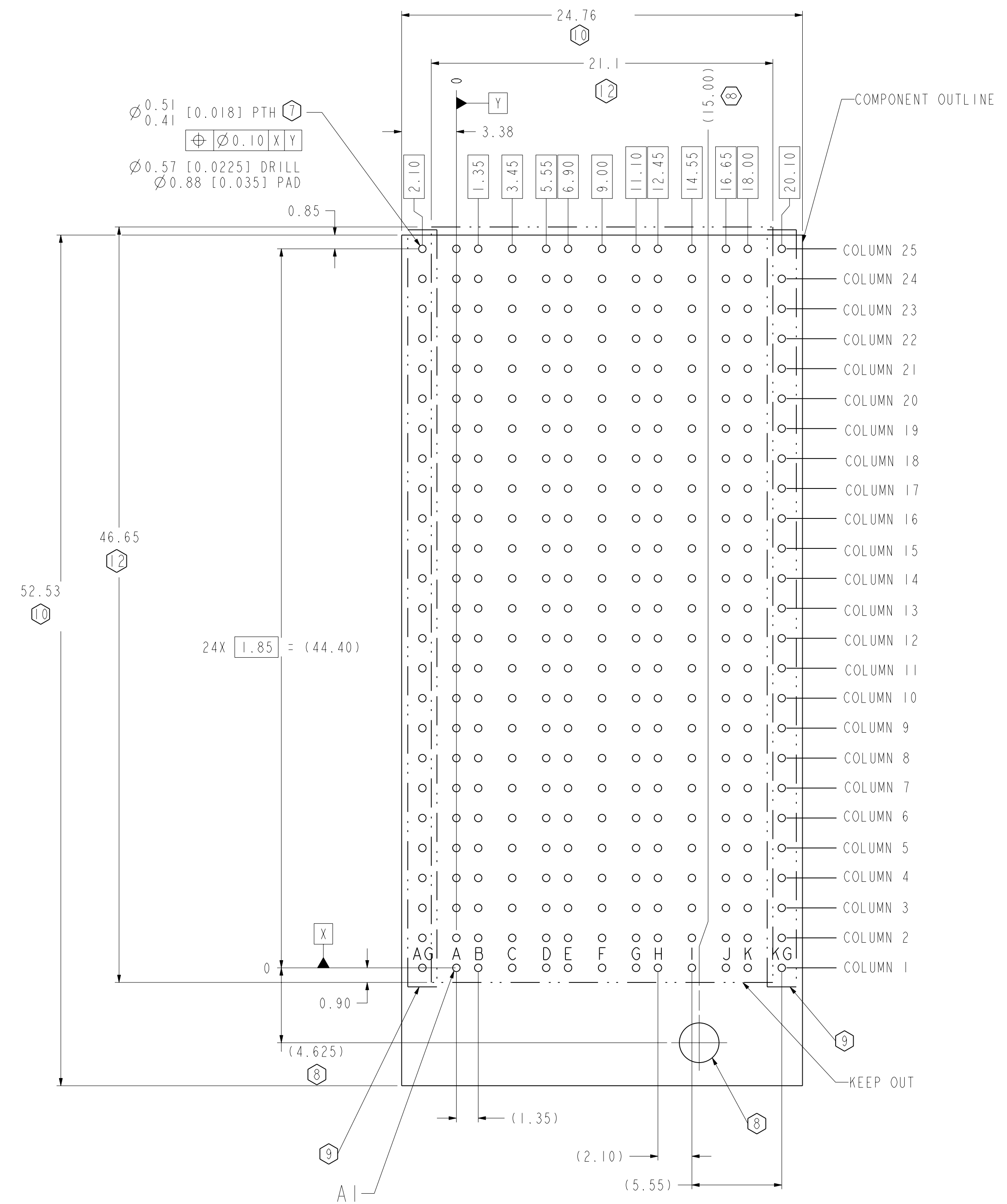
| ZONE | REV | SCR NUMBER | DESCRIPTION | BY | DATE | APPROVED |
|------|-----|------------|-------------|----|------|----------|
| | | | SEE SHEET I | | | |



5 POSITION LEFT POLARIZING
GbXe BACKPLANE HOLE PATTERN
COMPONENT SIDE SHOWN
SCALE 5/1



10 POSITION LEFT POLARIZING
GbXe BACKPLANE HOLE PATTERN
COMPONENT SIDE SHOWN
SCALE 5/1



25 POSITION LEFT POLARIZING
GbXe BACKPLANE HOLE PATTERN
COMPONENT SIDE SHOWN
SCALE 5/1

- NO SURFACE TRACES IN KEEP OUT AREA
- OPTIONAL HOLE LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE PIN SUPPORT. SEE DOCUMENT C-564-0471-000 FOR DETAIL AND LOCATION. FOR DC BOARD WEIGHT > 8IBS., REFER TO TB-2104 FOR PROPER GUIDE PIN SIZING.
- ADDITIONAL ROWS AG AND HG RECOMMENDED FOR ALL APPLICATIONS. (THESE ROWS SHOULD BE CONNECTED TO GROUND.)
- SEE DOCUMENT 190-0002-000 FOR TOOLING KEEPOUT ZONES.
- STATED PAD SIZE MAY REQUIRE FILLETING. FOR DETAILED ROUTING GUIDELINES, SEE TB-2090.

NOTES:

| TOLERANCES | DESIGN | 01-10-2006 |
|------------|--------|------------|
| 0.0 | ±0.25 | M.DEROSA |
| 0.00 | ±0.13 | M.DEROSA |
| 0.000 | ± | B.RICHARD |
| ANGLES | ± | B.RICHARD |

| | |
|--|--|
| Amphenol TCS A Division of Amphenol Corporation 44 Simon Street, Nashua, NH, 03060 603.879.3000 | |
| TITLE | GbXe, 4 PAIR DIFFERENTIAL LEFT POLARIZING BACKPLANE MODULE |
| PART NO. | SEE TABLE I |
| DRAWING NO. | C-345-4105-500 |
| PROJ. ASSEM | P1021-CU-HS-BP-LTPOL |
| FILE | P1021-CU-HS-BP-LTPOL.drw |
| SIZE | D |
| SCALE | 3/1 |
| SHEET | 2 OF 2 |

INTERPRET PER ASME Y14.5M
CODE IDENT 31413

CUSTOMER USE
DRAWING

DRW NO. C-345-4105-500

SH 2 REV A