

8

7

6

5

4

3

DRW NO.  
C-972-401J-500

SH  
1

REV  
G

| ZONE     | REV | ECN NUMBER     | DESCRIPTION                                                                                                              | BY     | DATE       | APPROVED |
|----------|-----|----------------|--------------------------------------------------------------------------------------------------------------------------|--------|------------|----------|
|          | E   | BW AG-18101704 | UPDATED NOTE 1.<br>ADDED NOTE 11 & 12.<br>REVISED BASE THICKNESS TOLERANCE 0.10 WAS 0.13.<br>ADDED SURFACE GROUND PLANE. | HCL-UD | 10/29/2018 | B.W ANG  |
| SHT1, C3 | F   | HHUG-20010801  | ADDED PLATING OPTION "P" TO P/N TREE                                                                                     | HCL-SG | 01/23/2020 | H.HUANG  |
| SHT9     | G   | HHUG-20090906  | ADDED SE MODULE PCB DETAILS.                                                                                             | HCL-SH | 10/06/2020 | H.HUANG  |

NOTE: ONLY THREE MOST RECENT RELEASED REVISIONS DISPLAYED.

| LETTER | PLATING                               |
|--------|---------------------------------------|
| D      | NI SULFAMATE, STANDARD GOLD, LEADFREE |
| E      | NI SULFAMATE, HIGH GOLD, LEADFREE     |
| H      | NANO NI, STANDARD GOLD, LEADFREE      |
| J      | NANO NI, HIGH GOLD, LEADFREE          |
| P      | Pd-NI, STANDARD GOLD, LEADFREE        |

| NUMBER | SIGNAL & GROUND WIPE LENGTH, COMPLIANT PIN SIZE |
|--------|-------------------------------------------------|
| G      | 2 mm WIPE SIGNAL, 3 mm WIPE GND, Ø.0157" DRILL  |
| J      | 2 mm WIPE SIGNAL, 2 mm WIPE GND, Ø.0157" DRILL  |

| NUMBER | WALL THICKNESS / SHIELD OPTION |
|--------|--------------------------------|
| 1      | THICK WALL, W/ EXTRA GROUND    |

9 7 2 - 4 X 1 J - X 0 X

XCede HD2 BACKPLANE MODULE MALE STANDARD LOAD

4 PAIR

4-POSITION

| LETTER                                               |              |   |   |   |   |   |   |   |   |
|------------------------------------------------------|--------------|---|---|---|---|---|---|---|---|
| LEFT<br>POLARIZING<br>GUIDANCE<br><br>(SEE SHEET 6)  | J            | A | B | C | D | E | F | G | H |
|                                                      | (NO KEY)<br> |   |   |   |   |   |   |   |   |
| RIGHT<br>POLARIZING<br>GUIDANCE<br><br>(SEE SHEET 7) | Y            | P | Q | R | S | T | U | V | W |
|                                                      | (NO KEY)<br> |   |   |   |   |   |   |   |   |
| OPEN<br>(SEE SHEET 2)                                | O (ZERO)     |   |   |   |   |   |   |   |   |
| LEFT WALL<br>(SEE SHEET 3)                           | L            |   |   |   |   |   |   |   |   |
| RIGHT WALL<br>(SEE SHEET 4)                          | M            |   |   |   |   |   |   |   |   |
| TWO WALL<br>(SEE SHEET 5)                            | 1            |   |   |   |   |   |   |   |   |

NOTES:

1. REFER TO TB-2343 FOR XCede HD2 PRODUCT SPECIFICATIONS.

2. NOTCH DESIGNATES "ROW A" SIDE OF SHROUD. NOTCH FEATURE ON OPPOSITE SIDE FROM PART MARKING.

3. SEE TB-2325 FOR PART MARKING REQUIREMENTS.

4. PLATING THICKNESS OF SIGNAL CONTACT AND GROUND CONTACT IS DETERMINED BY PLATING CODE.

5. REPAIR PROCEDURE FOR MODULE, SEE TB-2245.

6. SEE TB-2237 (XCede HD2 ROUTING GUIDELINES) FOR BOARD SPECIFIC DETAILS ON ROUTING, PLATING THICKNESS, SECONDARY DIAMETERS, PAD, ANTIPAD LOCATIONS, BACK DRILLING AND SHADOW VIAS.

7. SEE DOC C-190-0009-000 FOR TOOLING KEEPOUT ZONES.

8. BACKPLANE DATUM REFERENCE.

9. OPTIONAL HOLE/MOUNTING SCREW LOCATION FOR GROUNDED PIN OR ADDITIONAL GUIDE PIN SUPPORT. SEE DRAWING C-914-4010-000 FOR OPTIONAL HOLE DETAILS. ONLY APPLIES FOR MACHINED GUIDE PIN APPLICATIONS.

10. SHADOW VIAS (GND VIA'S) DO NOT RECEIVE COMPLIANT PINS. THEY ARE ADDED FOR IMPROVED SIGNAL INTEGRITY PERFORMANCE AND CAN CHANGE IN SIZE AND LOCATION BASED UPON THE SPECIFIC DESIGN DETAILS.

11. SURFACE GROUND PLANE EQUAL TO COMPONENT OUTLINE REQUIRED, SURFACE GROUND PLANE TO BE FREE FROM SOLDEMASK

12. ALL PLASTIC MATERIAL IS UL 94V-0 FLAMMABLE

ISOMETRIC VIEW

SEE SHEET 2

SEE SHEET 3

SEE SHEET 4

SEE SHEET 5

SEE SHEET 6

SEE SHEET 7

INTERPRET PER ASME Y14.5M

CODE IDENT 314.13

TOLERANCES

DESIGN 11/07/2016 B.W ANG

DRAWN 11/07/2016 HCL-NC

CHK 11/07/2016 B.W ANG

APVD 11/07/2016 B.W ANG

0.0 ±0.25

0.00 ±0.13

0.000 ± -

ANGLES ± 3°

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM, DECIMAL MARKER IS A PERIOD

**Amphenol TCS**

A Division of Amphenol Corporation

200 Innovative Way, Nashua, NH 03062 603.879.3000

TITLE

BACKPLANE MODULES, VERTICAL MALE HEADER

XCede HD2, 4 PAIR 4 POS, THICK WALL W/EXTRA GND

PART NO.

SEE P/N TREE SHEET 1

REV

N/A

DRAWING NO.

C-972-401J-500

REV

G

ASSEM C972-401J-500\_XG-HD2 0.2

DRAWING C972-401J-500\_XG-HD2 0.11

SIZE D

SCALE 1/1

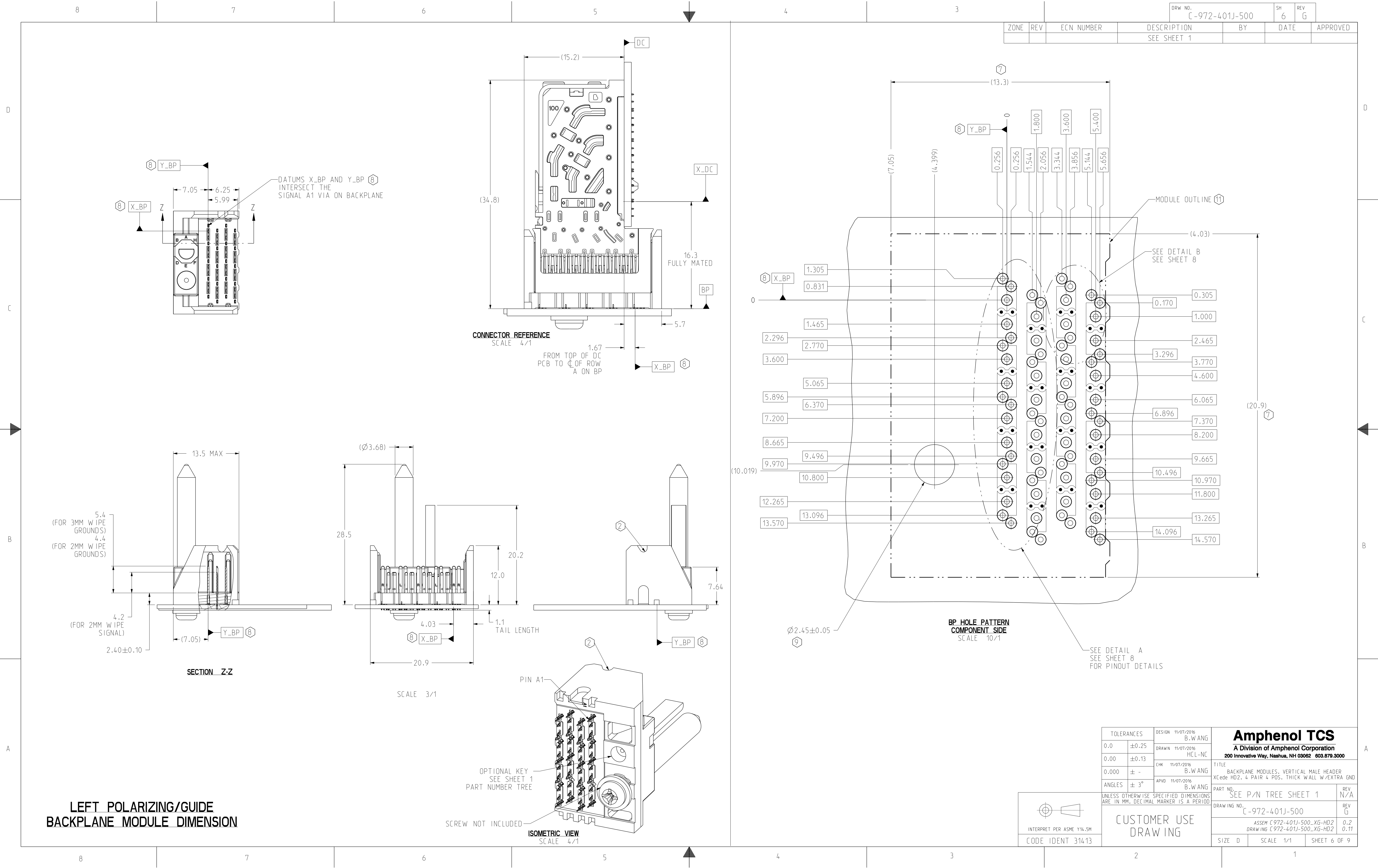
SHEET 1 OF 9











| ZONE |  | REV | ECN NUMBER | DESCRIPTION | BY | DATE | APPROVED |
|------|--|-----|------------|-------------|----|------|----------|
|      |  |     |            | SEE SHEET 1 |    |      |          |

|                |    |     |
|----------------|----|-----|
| DRW NO.        | SH | REV |
| C-972-401J-500 | 6  | G   |

|        |            |         |
|--------|------------|---------|
| DESIGN | 11/07/2016 | B.W ANG |
| DRAWN  | 11/07/2016 | HCL-NC  |
| CHK    | 11/07/2016 | B.W ANG |
| APVD   | 11/07/2016 | B.W ANG |

|            |       |       |
|------------|-------|-------|
| TOLERANCES | 0.0   | ±0.25 |
|            | 0.00  | ±0.13 |
|            | 0.000 | ± -   |
| ANGLES     | ± 3°  |       |

|                                                                             |  |
|-----------------------------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM. DECIMAL MARKER IS A PERIOD |  |
| INTERPRET PER ASME Y14.5M                                                   |  |
| CODE IDENT 31413                                                            |  |

|                      |        |
|----------------------|--------|
| CUSTOMER USE DRAWING |        |
| SIZE                 | D      |
| SCALE                | 1/1    |
| SHEET                | 6 OF 9 |

|                                                   |                      |
|---------------------------------------------------|----------------------|
| Amphenol TCS                                      |                      |
| A Division of Amphenol Corporation                |                      |
| 200 Innovative Way, Nashua, NH 03062 603.879.3000 |                      |
| TITLE                                             |                      |
| BACKPLANE MODULES, VERTICAL MALE HEADER           |                      |
| XCede HD2, 4 PAIR & POS, THICK WALL W/EXTRA GND   |                      |
| PART NO.                                          | SEE P/N TREE SHEET 1 |
| DRAWING NO.                                       | C-972-401J-500       |
| ASSEM                                             | C972-401J-500_XG-HD2 |
| DRAWING                                           | C972-401J-500_XG-HD2 |
| REV                                               | N/A                  |
| REV                                               | G                    |
| 0.2                                               |                      |
| 0.11                                              |                      |





