



| REVISIONS |         |                       |           |          |
|-----------|---------|-----------------------|-----------|----------|
| REV.      | ECN/E-R | DESCRIPTION           | DATE      | APPROVED |
| A         |         | PROPOSAL              | MAR 26/09 |          |
| B         |         | B-B APPLICATION ADDED | AUG 13/09 |          |
| C         |         | PROPOSAL              | MAR 15/12 |          |

MATERIAL:

CAGE:  
COPPER ALLOY

PLATING OPTION X=2:  
2.54um MIN. NICKEL

PLATING OPTION X=3:  
3.81um MIN. MATTE TIN  
OVER 1.27um MIN. NICKEL.

PACKAGING:  
TRAY PACKAGING

TEMPERATURE RANGE:  
-40°C TO +85°C

**P/N: U77-A661M-X081 SHOWN**

**P/N: U77-A461M-X081 SHOWN**

AMPHENOL PART NUMBER CONFIGURATION

U77 - A X 61 M - X081

PACKAGING  
1 = TRAY PACKAGING

PLATING  
2 = NICKEL PLATING  
3 = MATTE TIN PLATING

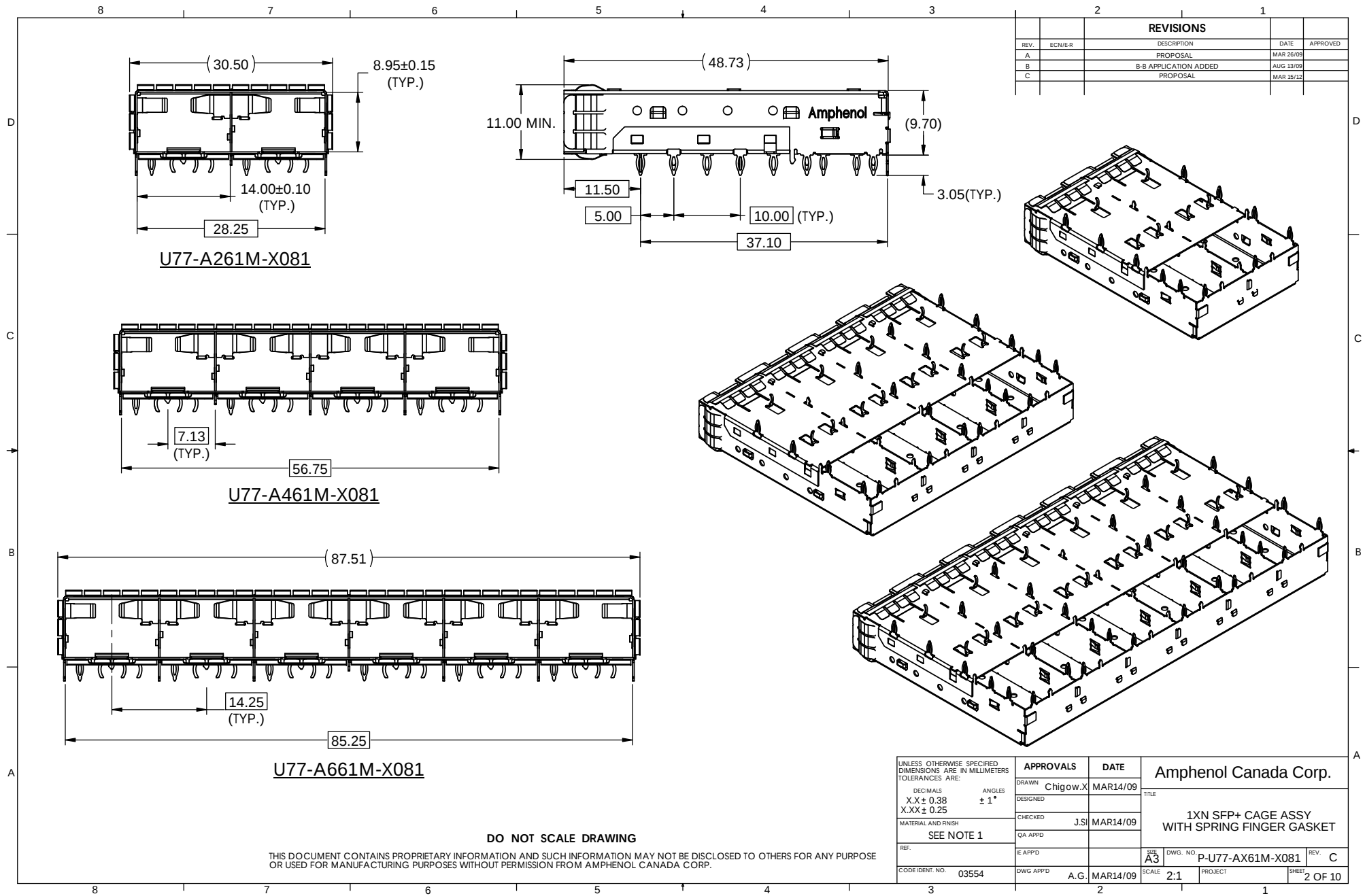
NUMBER OF PORTS  
2 = 2 PORTS  
4 = 4 PORTS  
6 = 6 PORTS

**P/N: U77-A261M-X081 SHOWN**

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|                                                                                                                                                                                                             |  |                  |  |             |                                                                                                                                                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|--|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN MILLIMETERS<br>TOLERANCES ARE:<br><br>DECIMALS ANGLES<br>X.X ± 0.38 ± 1°<br>X.XX ± 0.25<br><br>MATERIAL AND FINISH<br><br>REF.<br><br>CODE IDENT. NO. 03554 |  | <b>APPROVALS</b> |  | <b>DATE</b> | Amphenol Canada Corp.<br><br>TITLE<br><br>1XN SFP+ CAGE ASSY<br>WITH SPRING FINGER GASKET<br><br>SIZE DWG. NO. P-U77-AX61M-X081 REV. C<br>A3<br>SCALE 2:1 PROJECT SHEET 1 OF 10 |  |
|                                                                                                                                                                                                             |  | DRAWN Chigow.X   |  | MAR14/09    |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                             |  | DESIGNED         |  |             |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                             |  | CHECKED J.SJ     |  | MAR14/09    |                                                                                                                                                                                 |  |
| SEE NOTE 1                                                                                                                                                                                                  |  | QA APPD          |  |             |                                                                                                                                                                                 |  |
| E APPD                                                                                                                                                                                                      |  |                  |  |             |                                                                                                                                                                                 |  |
| DWG APPD A.G.                                                                                                                                                                                               |  | MAR14/09         |  |             |                                                                                                                                                                                 |  |



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| C         |         | PROPOSAL              | MAR 15/12 |          |

|                                                                                                                                                                                                                                                                                       |  |                     |  |          |  |                                                                                                                                                                  |  |         |  |                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|----------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|--------------------|--|
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|                                                                                                                                                                                                                                                                                       |  | DRAWN      Chigow.X |  | MAR14/09 |  |                                                                                                                                                                  |  |         |  |                    |  |
|                                                                                                                                                                                                                                                                                       |  | DESIGNED            |  |          |  |                                                                                                                                                                  |  |         |  |                    |  |
|                                                                                                                                                                                                                                                                                       |  | CHECKED      J.SJ   |  | MAR14/09 |  |                                                                                                                                                                  |  |         |  |                    |  |
|                                                                                                                                                                                                                                                                                       |  | QA APPD             |  |          |  |                                                                                                                                                                  |  |         |  |                    |  |
|                                                                                                                                                                                                                                                                                       |  | E APPD              |  |          |  |                                                                                                                                                                  |  |         |  |                    |  |
|                                                                                                                                                                                                                                                                                       |  | DWG APPD      A.G.  |  | MAR14/09 |  | SCALE      2:1                                                                                                                                                   |  | PROJECT |  | SHEET      2 OF 10 |  |
|                                                                                                                                                                                                                                                                                       |  |                     |  |          |  |                                                                                                                                                                  |  |         |  |                    |  |

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8 7 6 5 4 3 2 1

| REV. | ECN/ER | DESCRIPTION           | DATE      | APPROVED |
|------|--------|-----------------------|-----------|----------|
| A    |        | PROPOSAL              | MAR 26/09 |          |
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| C    |        | PROPOSAL              | MAR 15/12 |          |

PART NUMBER DIM "C" DIM "D"

|                |       |       |
|----------------|-------|-------|
| U77-A261M-X081 | 29.70 | 31.00 |
| U77-A461M-X081 | 58.20 | 59.50 |
| U77-A661M-X081 | 86.70 | 88.00 |

(1.57)

DIM "C"

A

10.40±0.10

(10.22)

PCB

CENTER OF CONNECTOR GUIDE PIN PER SPEC

0.19±0.10 (OPENING BELOW PCB)

(3.50)

35.40 MAX

SECTION A-A

DIM "D" MIN.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:

| DECIMALS    | ANGLES |
|-------------|--------|
| X.X ± 0.38  | ± 1°   |
| X.XX ± 0.25 |        |

MATERIAL AND FINISH

SEE NOTE 1

REF.

CODE IDENT. NO. 03554

APPROVALS

| DRAWN         | DATE     |
|---------------|----------|
| Chigow.X      | MAR14/09 |
| DESIGNED      |          |
| CHECKED J.SI  | MAR14/09 |
| QA APPD       |          |
| E APPD        |          |
| DWG APPD A.G. | MAR14/09 |

DATE

Amphenol Canada Corp.

TITLE

1XN SFP+ CAGE ASSY WITH SPRING FINGER GASKET

SIZE A3

DWG. NO. P-U77-AX61M-X081

REV. C

SCALE 2:1

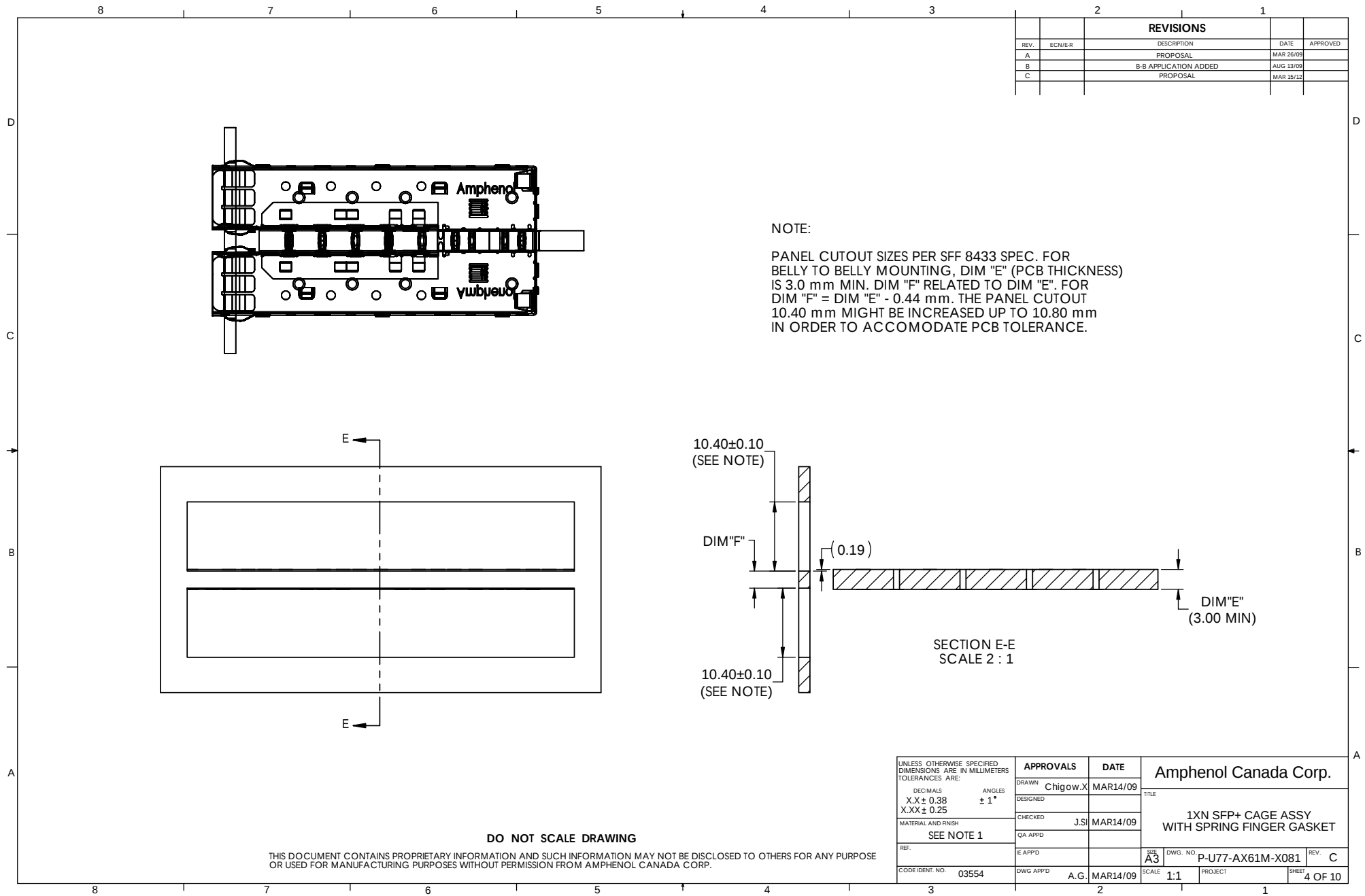
PROJECT

SHEET 3 OF 10

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8 7 6 5 4 3 2 1



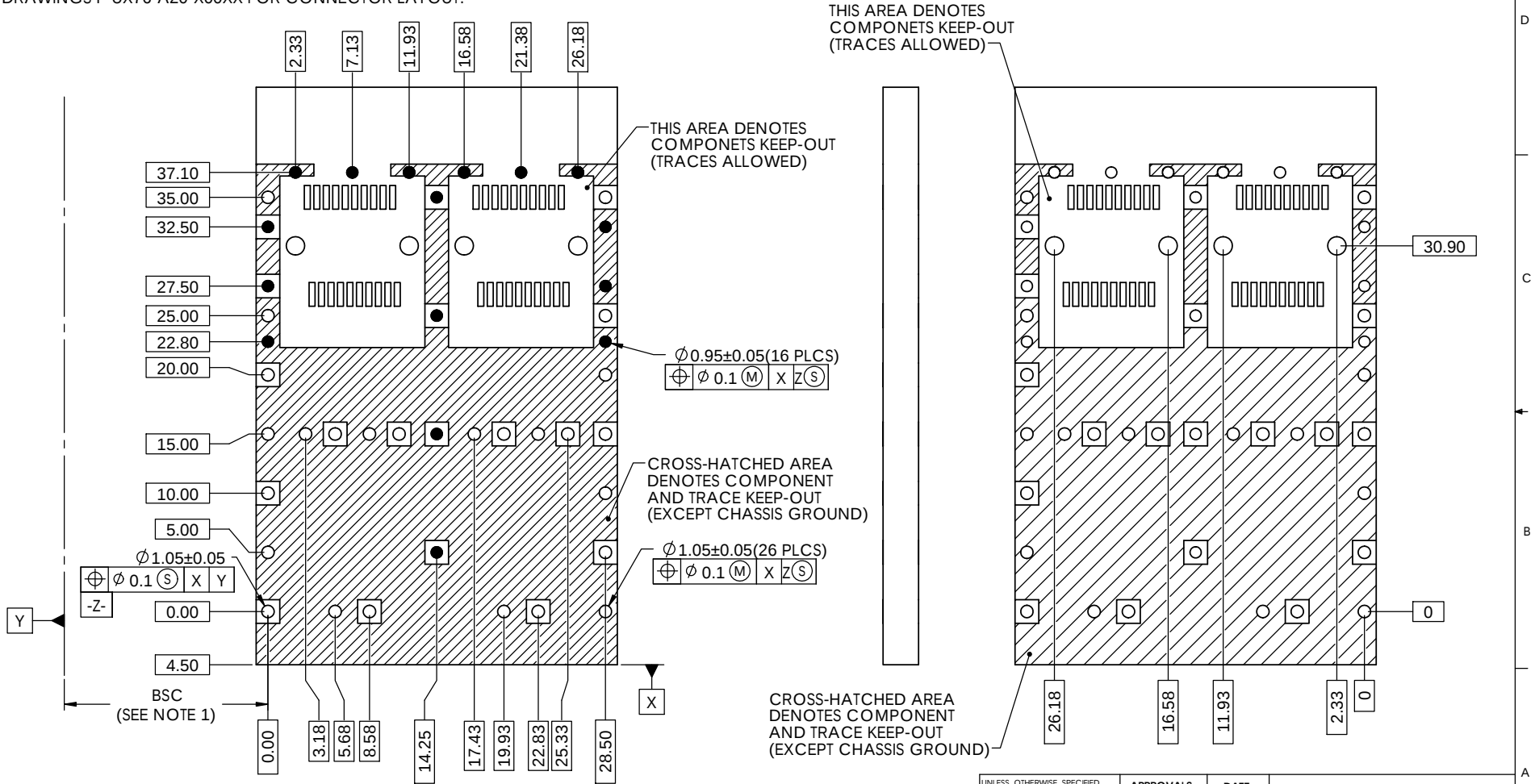


NOTES:

1. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
2. PADS AND VIAS ARE CHASSIS GROUND.
3. THRU-HOLES, PLATING OPTIONAL.
4. SEE DRAWINGS P-UX76-A20-X00XX FOR CONNECTOR LAYOUT.

REVISIONS

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| B    |         | B-B APPLICATION ADDED | AUG 13/09 |          |
| C    |         | PROPOSAL              | MAR 15/12 |          |



**RECOMMENDED PCB DESIGN  
FOR BELLY TO BELLY MOUNTING  
(P/N U77-A261M-X081)**

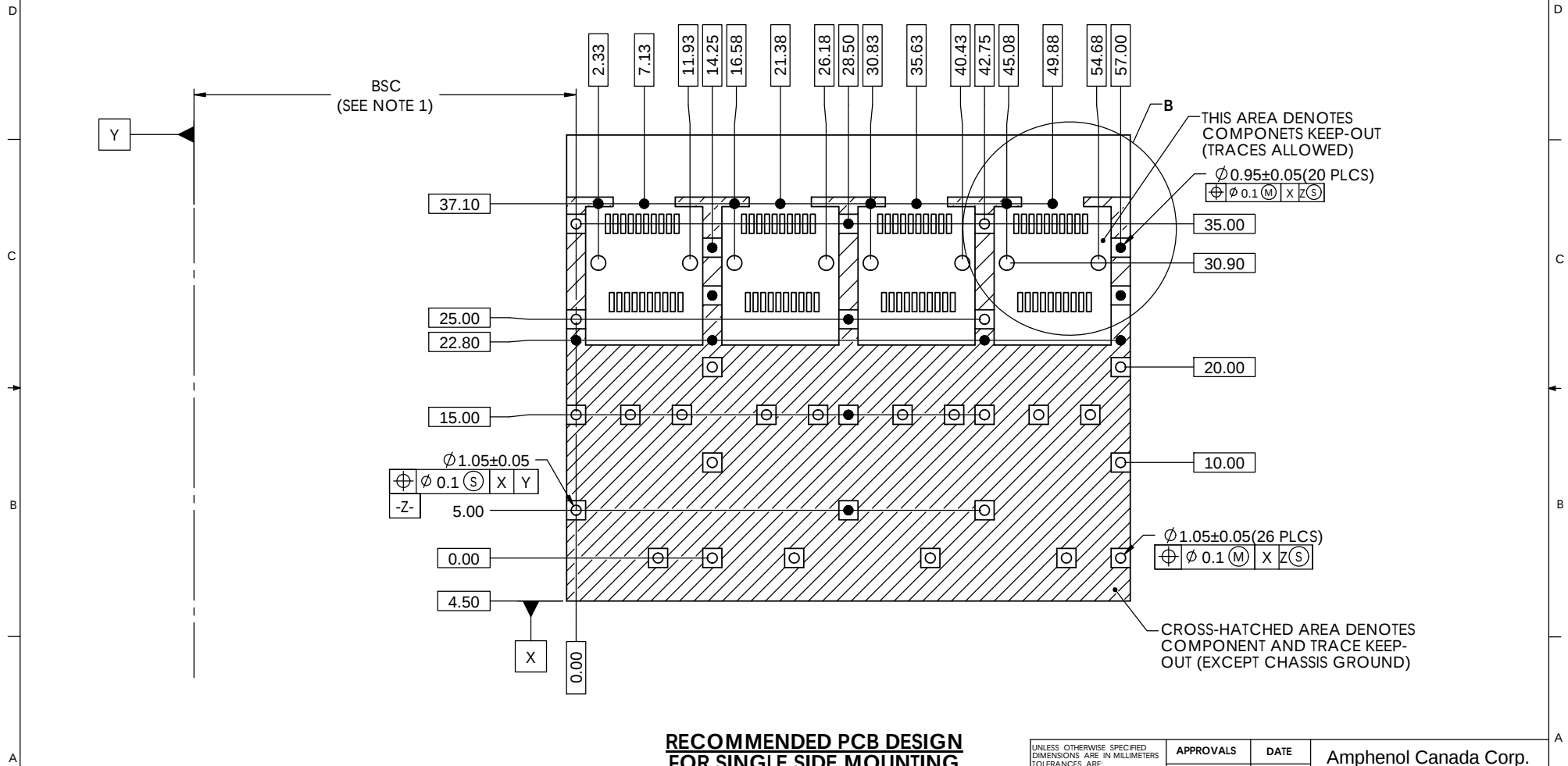
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|                                                                                                                                                                                                                               |           |          |               |                                                 |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------------|-------------------------------------------------|---------------------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN MILLIMETERS<br>TOLERANCES ARE:<br><br>DECIMALS ANGLES<br>X.X ± 0.38 ± 1°<br>X.XX ± 0.25<br><br>MATERIAL AND FINISH<br><br>SEE NOTE 1<br><br>REF.<br><br>CODE IDENT. NO. 03554 | APPROVALS |          | DATE          | Amphenol Canada Corp.                           |                           |
|                                                                                                                                                                                                                               | DRAWN     | Chigow.X | MAR14/09      | TITLE                                           |                           |
|                                                                                                                                                                                                                               | DESIGNED  |          |               | 1XN SFP+ CAGE ASSY<br>WITH SPRING FINGER GASKET |                           |
|                                                                                                                                                                                                                               | CHECKED   | J.SJ     | MAR14/09      |                                                 |                           |
| E APPD                                                                                                                                                                                                                        |           |          |               | SIZE A3                                         | DWG. NO. P-U77-AX61M-X081 |
| DWG APPD                                                                                                                                                                                                                      |           |          | A.G. MAR14/09 | SCALE 3:1                                       | PROJECT                   |
|                                                                                                                                                                                                                               |           |          |               |                                                 | REV. C                    |
|                                                                                                                                                                                                                               |           |          |               |                                                 | SHEET 6 OF 10             |

- NOTES:
1. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
  2. PADS AND VIAS ARE CHASSIS GROUND.
  3. THRU-HOLES, PLATING OPTIONAL.
  4. SEE DRAWINGS P-UX76-A20-X00XX FOR CONNECTOR LAYOUT.

| REVISIONS |         |                       |           |          |
|-----------|---------|-----------------------|-----------|----------|
| REV.      | ECN/E/R | DESCRIPTION           | DATE      | APPROVED |
| A         |         | PROPOSAL              | MAR 26/09 |          |
| B         |         | B-B APPLICATION ADDED | AUG 13/09 |          |
| C         |         | PROPOSAL              | MAR 15/12 |          |



**RECOMMENDED PCB DESIGN  
FOR SINGLE SIDE MOUNTING  
(P/N U77-A461M-X081)**

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|                                                                                |  |                   |  |               |  |                                                 |  |
|--------------------------------------------------------------------------------|--|-------------------|--|---------------|--|-------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN MILLIMETERS<br>TOLERANCES ARE: |  | APPROVALS         |  | DATE          |  | Amphenol Canada Corp.                           |  |
| DECIMALS<br>X.X ± 0.38<br>X.XX ± 0.25                                          |  | DRAWN<br>Chigow.X |  | MAR14/09      |  | TITLE                                           |  |
| ANGLES<br>± 1°                                                                 |  | DESIGNED          |  |               |  | 1XN SFP+ CAGE ASSY<br>WITH SPRING FINGER GASKET |  |
| MATERIAL AND FINISH                                                            |  | CHECKED<br>J.SJ   |  | MAR14/09      |  |                                                 |  |
| SEE NOTE 1                                                                     |  | QA APPD           |  |               |  |                                                 |  |
| REF.                                                                           |  | E APPD            |  |               |  | SIZE<br>A3                                      |  |
| CODE IDENT. NO. 03554                                                          |  | DWG APPD          |  | A.G. MAR14/09 |  | DWG. NO. P-U77-AX61M-X081                       |  |
|                                                                                |  | SCALE 1:1         |  | PROJECT       |  | REV. C                                          |  |
|                                                                                |  |                   |  |               |  | SHEET 7 OF 10                                   |  |

NOTES:

1. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
2. PADS AND VIAS ARE CHASSIS GROUND.
3. THRU-HOLES, PLATING OPTIONAL.
4. SEE DRAWINGS P-UX76-A20-X00XX FOR CONNECTOR LAYOUT.

REVISIONS

| REV. | ECN/E/R | DESCRIPTION           | DATE      | APPROVED |
|------|---------|-----------------------|-----------|----------|
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| B    |         | B-B APPLICATION ADDED | AUG 13/09 |          |
| C    |         | PROPOSAL              | MAR 15/12 |          |

THIS AREA DENOTES  
COMPONENTS KEEP-OUT  
(TRACES ALLOWED)

THIS AREA DENOTES  
COMPONENTS KEEP-OUT  
(TRACES ALLOWED)  
 $\varnothing 0.95 \pm 0.05$  (28 PLCS)

$\varnothing 0.1$  (M) X Z (S)

$\varnothing 1.05 \pm 0.05$  (52 PLCS)

$\varnothing 0.1$  (M) X Z (S)

CROSS-HATCHED AREA  
DENOTES COMPONENT  
AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

CROSS-HATCHED AREA  
DENOTES COMPONENT  
AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

**RECOMMENDED PCB DESIGN  
FOR BELLY TO BELLY MOUNTING  
(P/N U77-A461M-X081)**

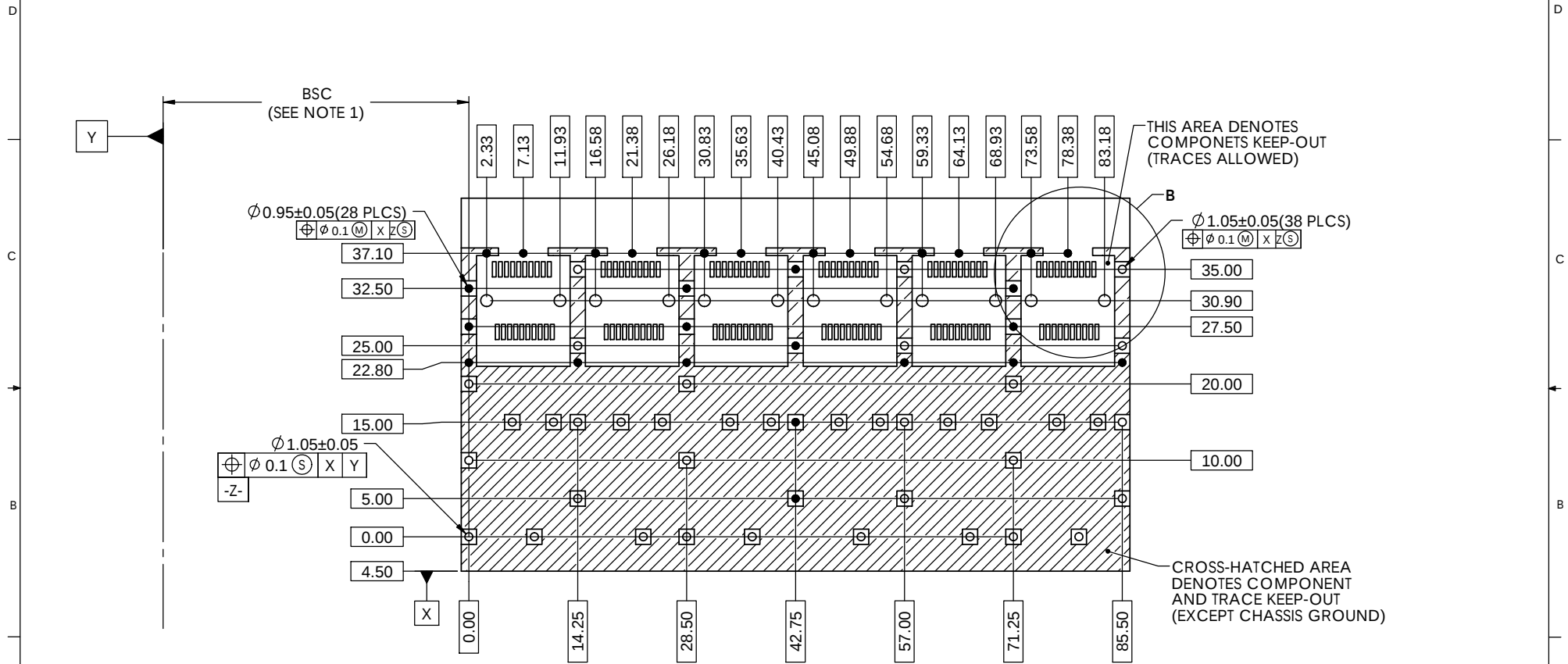
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|                                                                                |        |           |          |              |                                                              |                              |
|--------------------------------------------------------------------------------|--------|-----------|----------|--------------|--------------------------------------------------------------|------------------------------|
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| DECIMALS                                                                       | ANGLES | DRAWN     | Chigow.X | MAR14/09     | TITLE<br><br>1XN SFP+ CAGE ASSY<br>WITH SPRING FINGER GASKET |                              |
| X.X ± 0.38                                                                     | ± 1°   | DESIGNED  |          |              |                                                              |                              |
| X.XX ± 0.25                                                                    |        | CHECKED   | J.SJ     | MAR14/09     |                                                              |                              |
| MATERIAL AND FINISH                                                            |        | QA APPD   |          |              |                                                              |                              |
| SEE NOTE 1                                                                     |        | E APPD    |          |              | SIZE<br>A3                                                   | DWG. NO.<br>P-U77-AX61M-X081 |
| REF.                                                                           |        | DWG APPD  |          |              |                                                              |                              |
| CODE IDENT. NO.                                                                | 03554  | A.G.      | MAR14/09 | SCALE<br>2:1 | PROJECT                                                      | REV.<br>C                    |
|                                                                                |        |           |          |              |                                                              | SHEET<br>8 OF 10             |

- NOTES:
1. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
  2. PADS AND VIAS ARE CHASSIS GROUND.
  3. THRU-HOLES, PLATING OPTIONAL.
  4. SEE DRAWINGS P-UX76-A20-X00XX FOR CONNECTOR LAYOUT.

| REVISIONS |         |                       |           |          |
|-----------|---------|-----------------------|-----------|----------|
| REV.      | ECN/E/R | DESCRIPTION           | DATE      | APPROVED |
| A         |         | PROPOSAL              | MAR 26/09 |          |
| B         |         | B-B APPLICATION ADDED | AUG 13/09 |          |
| C         |         | PROPOSAL              | MAR 15/12 |          |



**RECOMMENDED PCB DESIGN  
FOR SINGLE SIDE MOUNTING  
(P/N U77-A661M-X081)**

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|                                                                                                                                                                                   |  | DRAWN Chigow.X |  | MAR14/09 |  |                                                              |  |                           |  |               |  |
|                                                                                                                                                                                   |  | DESIGNED       |  |          |  | TITLE<br><br>1XN SFP+ CAGE ASSY<br>WITH SPRING FINGER GASKET |  |                           |  |               |  |
|                                                                                                                                                                                   |  | CHECKED J.SJ   |  | MAR14/09 |  |                                                              |  |                           |  |               |  |
| QA APPD                                                                                                                                                                           |  |                |  |          |  |                                                              |  |                           |  |               |  |
| E APPD                                                                                                                                                                            |  |                |  |          |  |                                                              |  |                           |  |               |  |
| MATERIAL AND FINISH<br><br>SEE NOTE 1                                                                                                                                             |  |                |  |          |  | SIZE A3                                                      |  | DWG. NO. P-U77-AX61M-X081 |  | REV. C        |  |
| REF.                                                                                                                                                                              |  |                |  |          |  | SCALE 1:1                                                    |  | PROJECT                   |  | SHEET 9 OF 10 |  |
| CODE IDENT. NO. 03554                                                                                                                                                             |  | DWG APPD A.G.  |  | MAR14/09 |  |                                                              |  |                           |  |               |  |

8 7 6 5 4 3 2 1

NOTES:

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2. PADS AND VIAS ARE CHASSIS GROUND.
3. THRU-HOLES, PLATING OPTIONAL.
4. SEE DRAWINGS P-UX76-A20-X00XX FOR CONNECTOR LAYOUT.

REVISIONS

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| B    |         | B-B APPLICATION ADDED | AUG 13/09 |          |
| C    |         | PROPOSAL              | MAR 15/12 |          |

THIS AREA DENOTES  
COMPONENTS KEEP-OUT  
(TRACES ALLOWED)

THIS AREA DENOTES  
COMPONENTS KEEP-OUT  
(TRACES ALLOWED)

$\varnothing 0.95 \pm 0.05$  (40 PLCS)  
 $\varnothing 0.1$  (M) X Z (S)

37.10  
35.00  
32.50  
27.50  
25.00  
22.80  
20.00

15.00  
10.00  
5.00  
0.00  
4.50

BSC  
(SEE NOTE 1)

$\varnothing 1.05 \pm 0.05$   
 $\varnothing 0.1$  (S) X Y  
-Z-

$\varnothing 1.05 \pm 0.05$  (41 PLCS)  
 $\varnothing 0.1$  (M) X Z (S)

CROSS-HATCHED AREA  
DENOTES COMPONENT  
AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

CROSS-HATCHED AREA  
DENOTES COMPONENT  
AND TRACE KEEP-OUT  
(EXCEPT CHASSIS GROUND)

30.90

0

83.18  
73.58  
68.93  
59.33  
54.68  
45.08  
40.43  
30.83  
26.18  
16.58  
11.93  
2.33  
0

**RECOMMENDED PCB DESIGN  
FOR BELLY TO BELLY MOUNTING  
(P/N U77-A661M-X081)**

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|                                                                                                                                                                                                                               |  | DRAWN Chigow.X | MAR14/09 | 1XN SFP+ CAGE ASSY<br>WITH SPRING FINGER GASKET |                        |
|                                                                                                                                                                                                                               |  | DESIGNED       |          |                                                 |                        |
|                                                                                                                                                                                                                               |  | CHECKED J.SJ   | MAR14/09 |                                                 |                        |
|                                                                                                                                                                                                                               |  | QA APPD        |          | P-U77-AX61M-X081                                |                        |
|                                                                                                                                                                                                                               |  | E APPD         |          | SIZE A3                                         | DWG. NO. C             |
|                                                                                                                                                                                                                               |  | DWG APPD A.G.  | MAR14/09 | SCALE 3:2                                       | PROJECT SHEET 10 OF 10 |