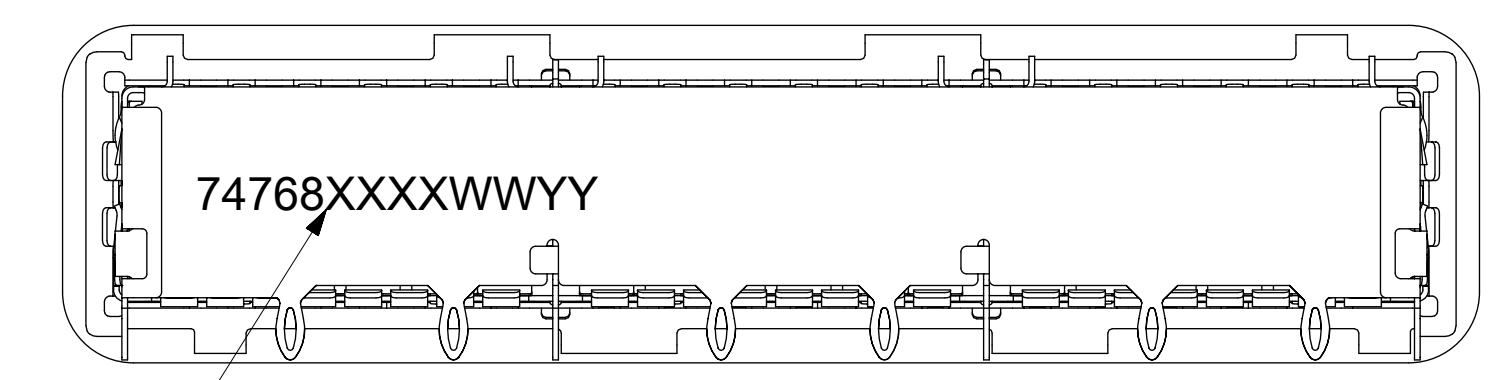
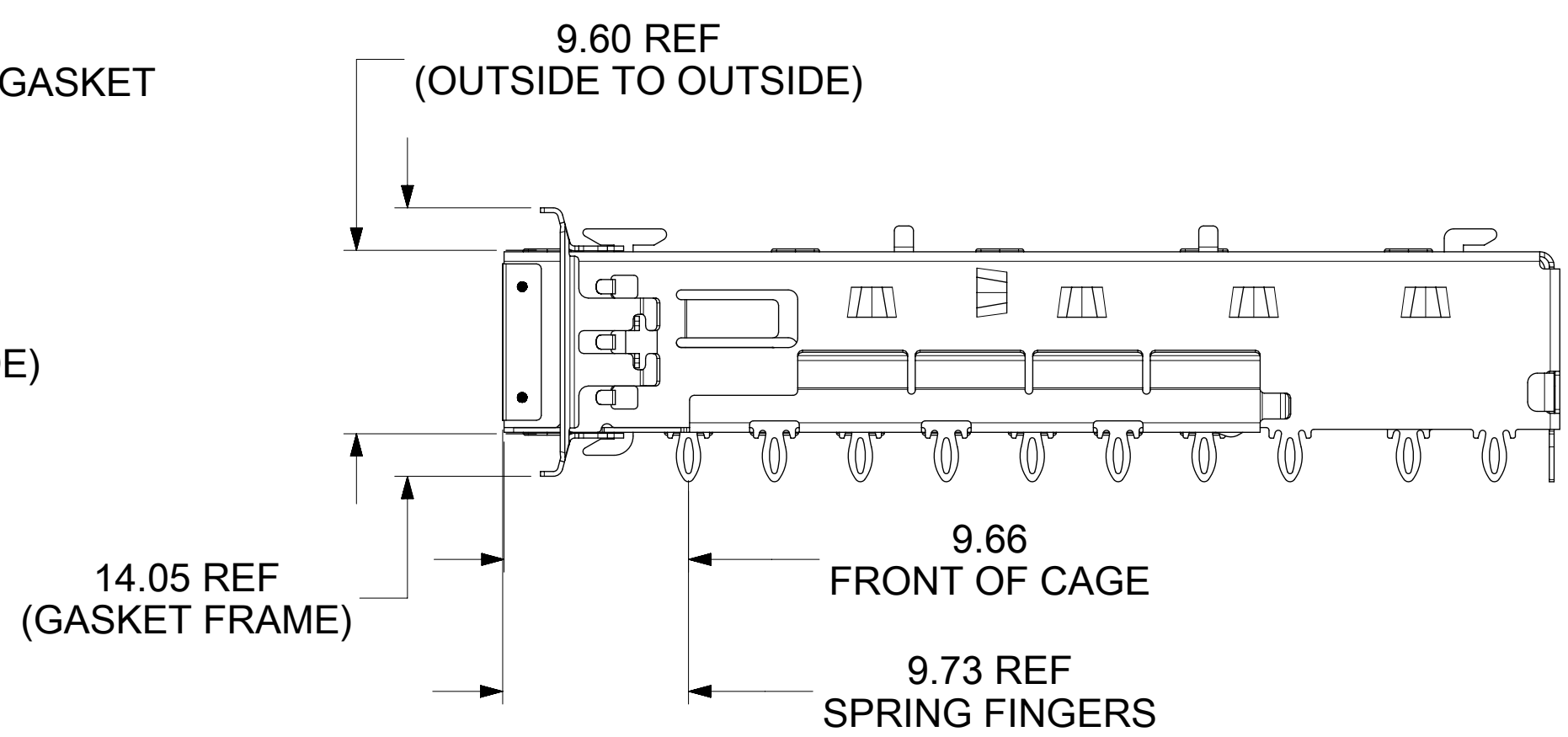
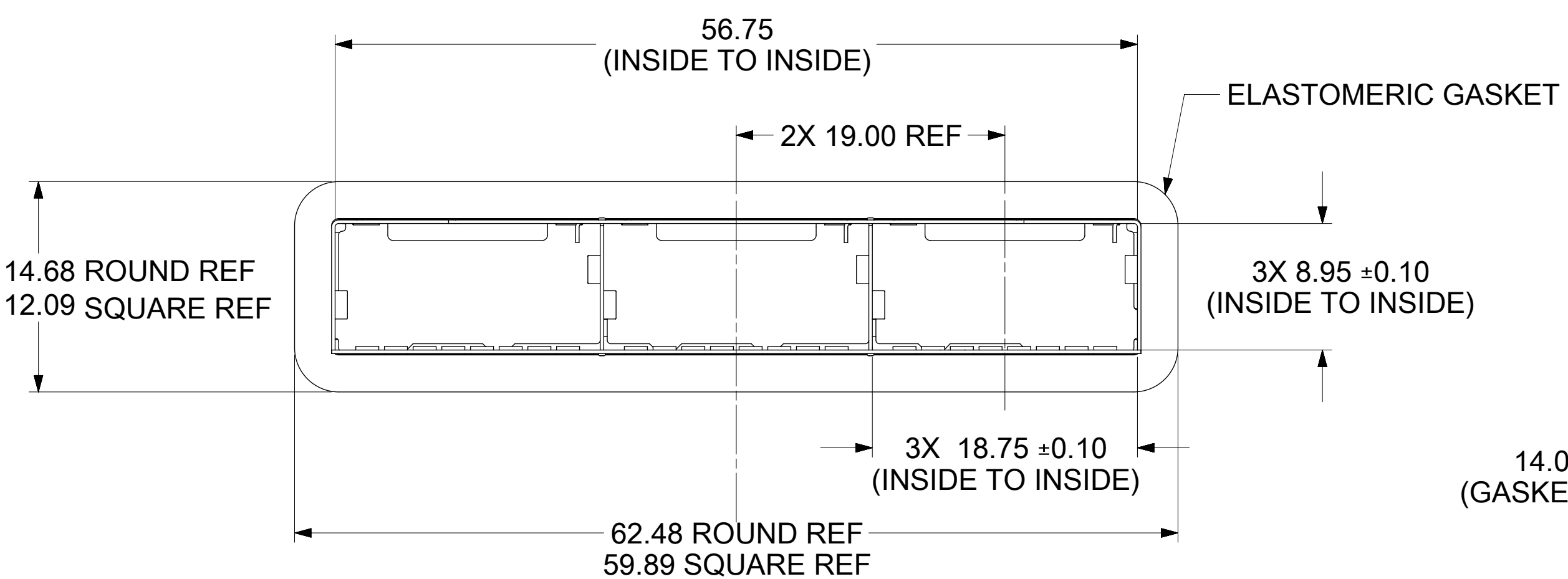
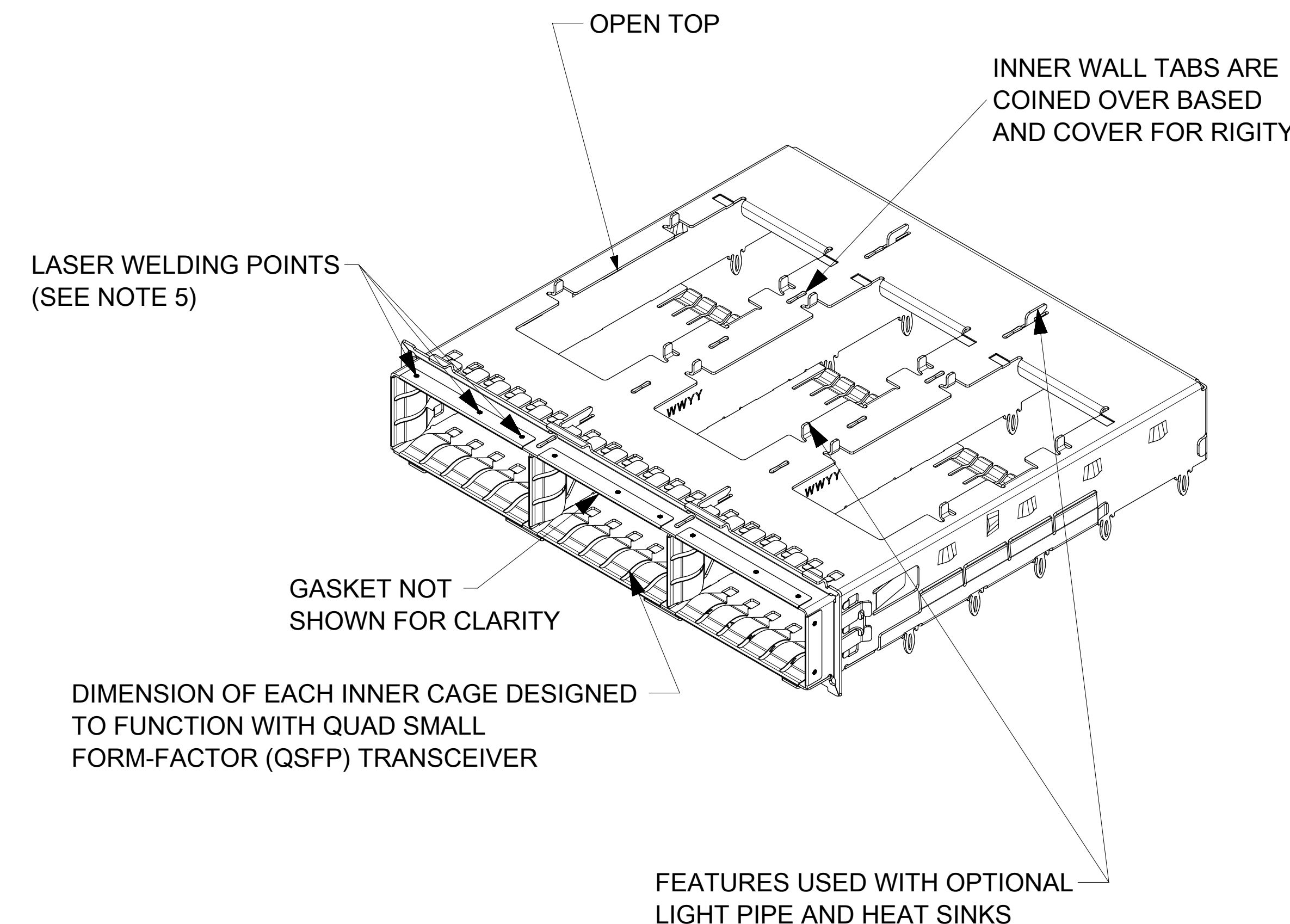
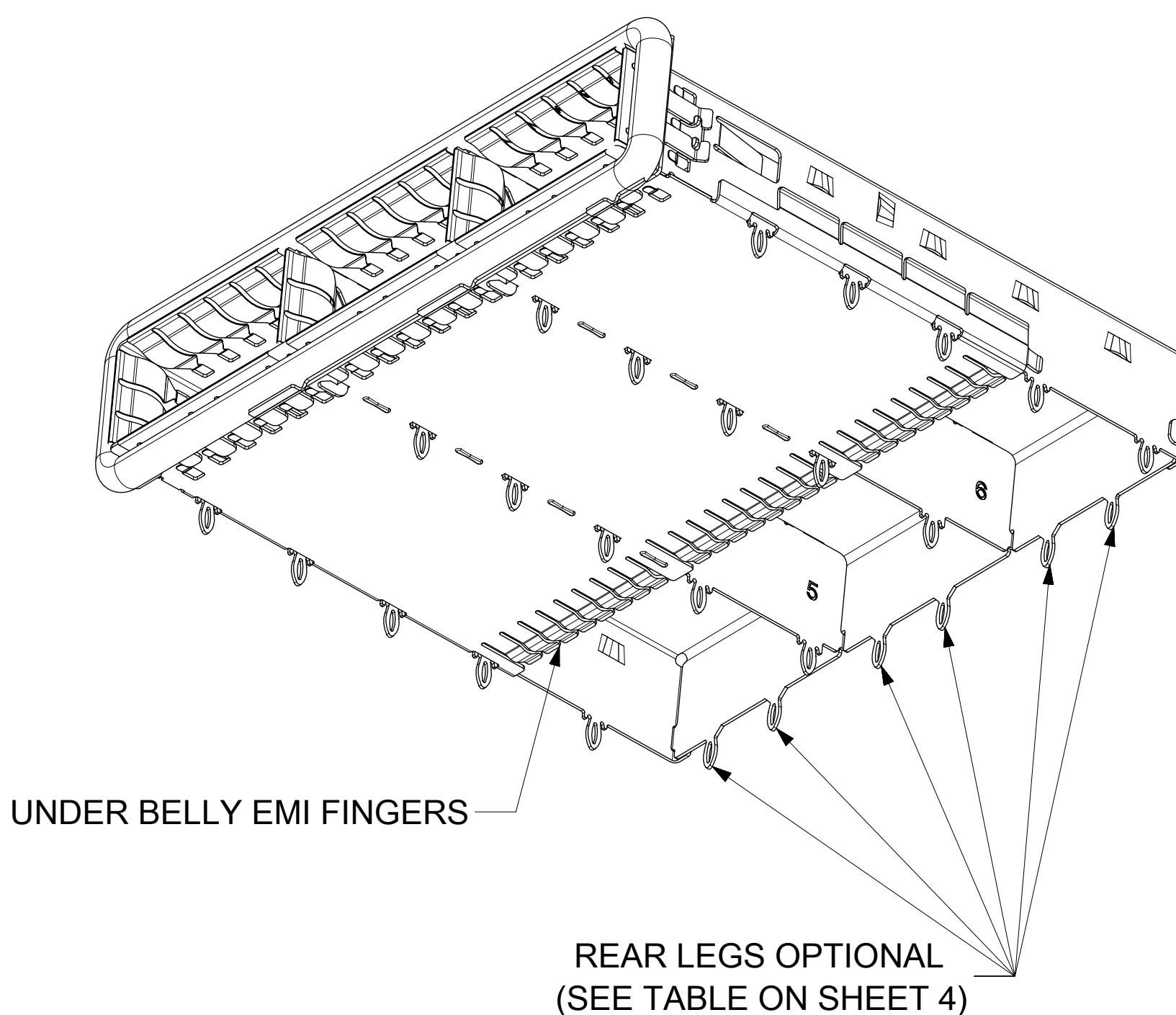
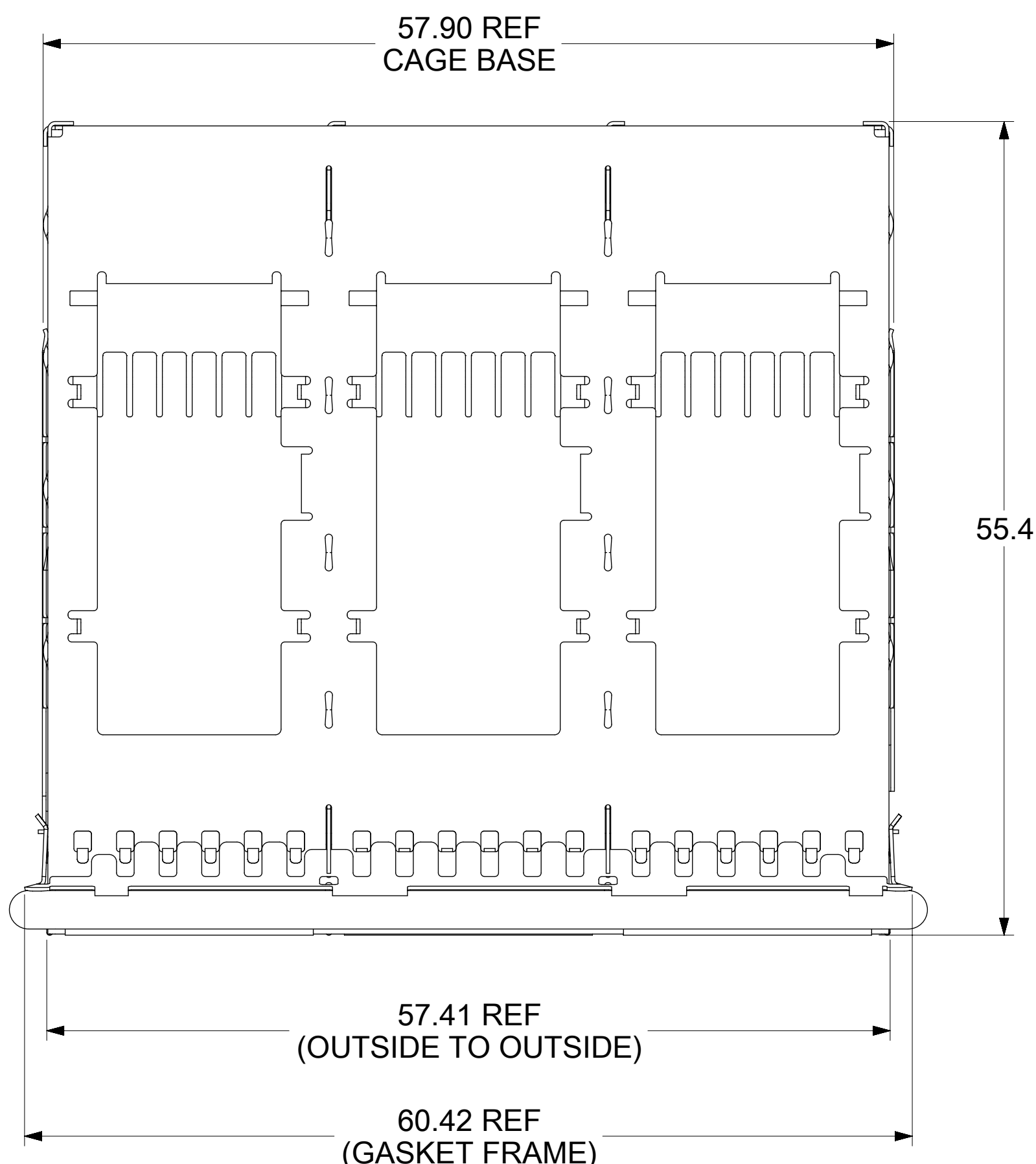


BASE CAGE DETAILS

(APPLIES TO ALL CAGES IN THIS DRAWING)

747683212 SHOWN



PART NO. AND WEEK/YEAR DATE CODE TO BE PRINTED ON BACK OF COMPLETED CAGE ASSEMBLY APPROXIMATELY AS SHOWN. SEE TABLE BELOW FOR DATE CODE INFORMATION.

NOTE: INNER SPRING FINGERS HAVE BEEN REMOVED FOR CLARITY

NOTE: ELASTOMER GASKET REMOVED FOR CLARITY

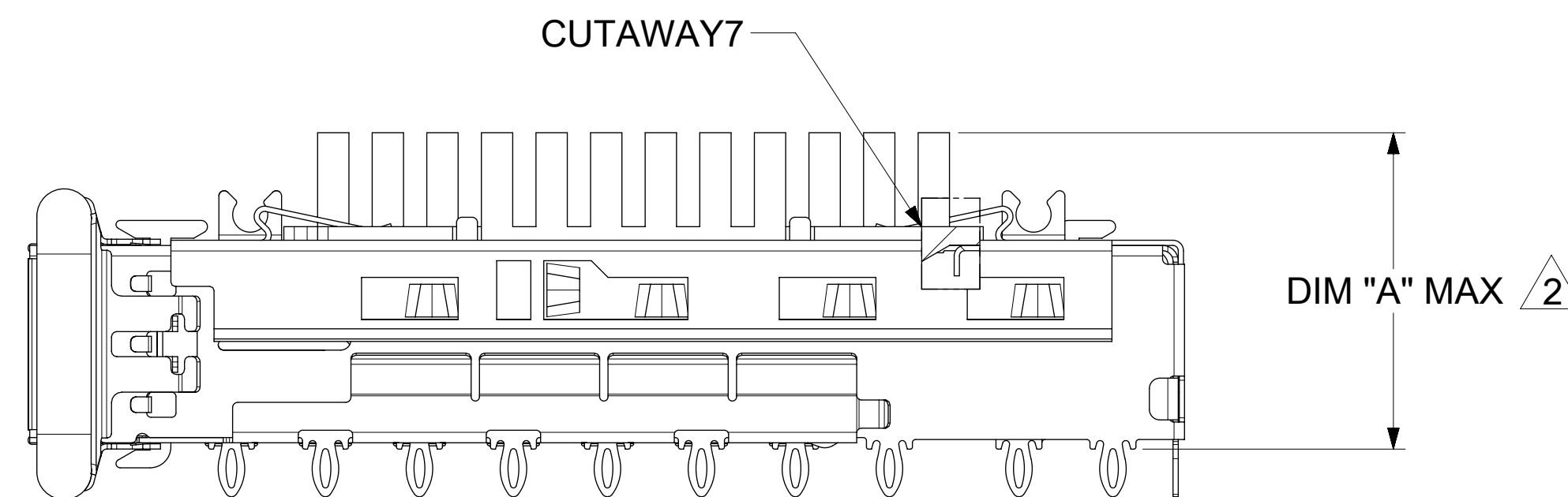
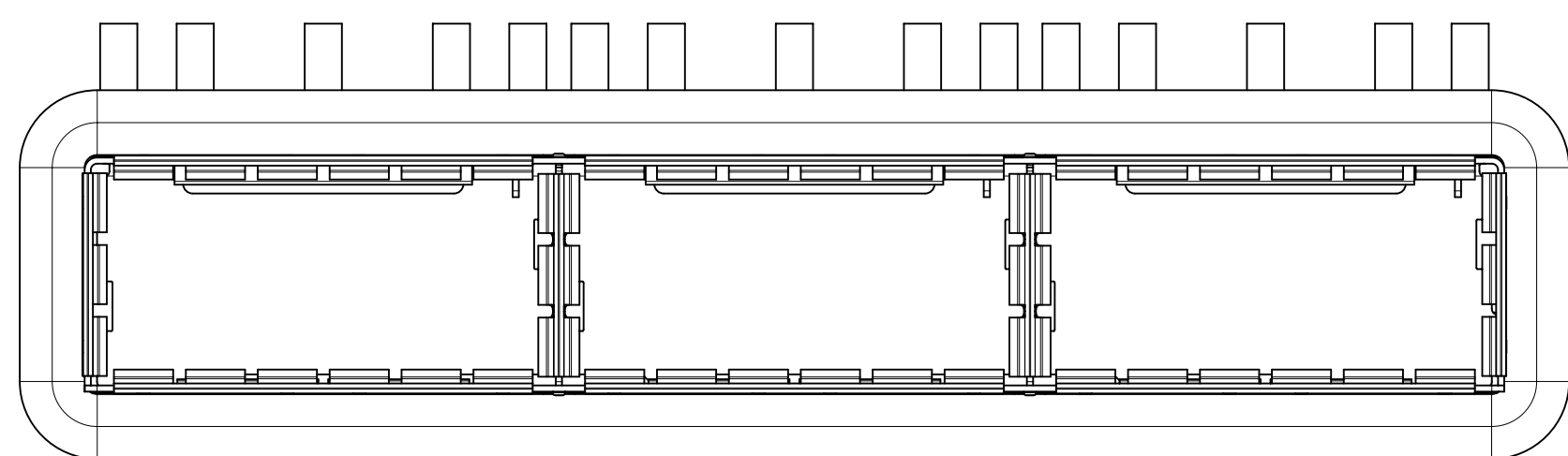
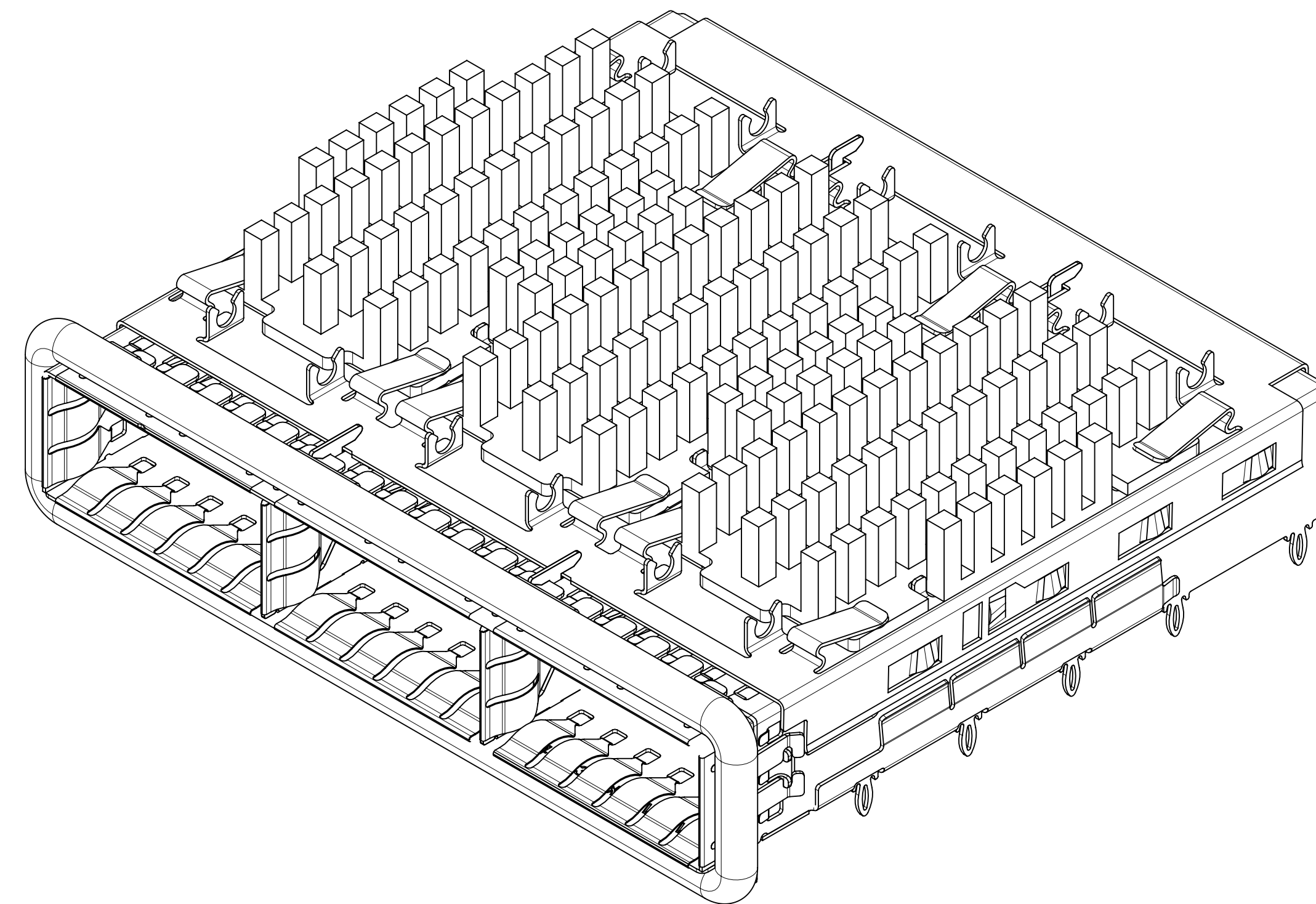
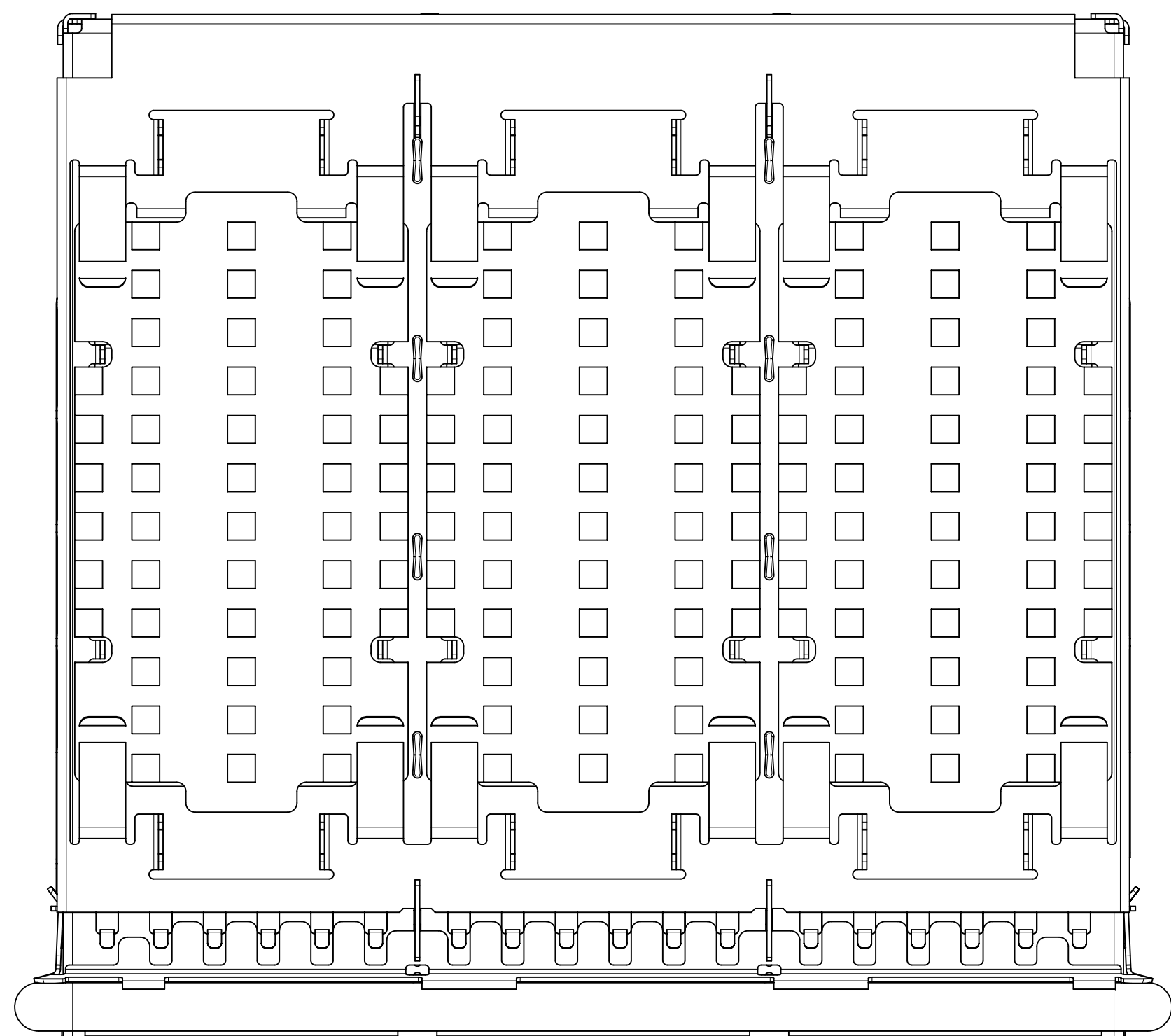
| WEEK/YEAR DATE CODE TABLE | |
|---------------------------|--|
| WW | 01 THRU 52 EXAMPLE: 01 = FIRST WEEK OF YEAR 52 = LAST WEEK OF YEAR |
| YY | 22, 23, 24 ETC. EXAMPLE: YEAR 2022 =22 |

- NOTES:
1. QSFP+ ASSEMBLES ALSO AVAILABLE AND 1X1 74750 SERIES, 1X2 (74767 SERIES), 1X4 (74769 SERIES) AND 1X6 (74771 SERIES) CONFIGURATIONS.
 2. MATERIAL:
 COVER: STAINLESS STEEL
 LIGHT PIPES: POLYCARBONATE (94-V0 RATED)
 SPRING FINGER : STAINLESS STEEL
 CLIP: STAINLESS STEEL
 HEAT SINKS: ALUMINUM
 CAGE: COPPER ALLOY
 GASKET MATERIAL : ELASTOMER GASKET SILICONE, COLOUR BLACK
 3. NO RoHS EXEMPTIONS
 4. CUSTOM HEATSINKS AVAILABLE UPON REQUEST.
 5. WELD SPOTS MAY SHOW SLIGHT MATERIAL DISCOLORATION.

| | | | | | | | | | |
|---|--------|--|------------|-----------------|---------------|--------------|----------|--|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | |
| DIMENSION UNITS | SCALE | CURRENT REV DESC: SEE REVISION TABLE | | | | | | | |
| mm | 3:1 | <p>QSFP+ 1X3 GANGED CAGE, GASKET TYPE W/ SUS INNER SPRING FINGER</p> <p>PRODUCT CUSTOMER DRAWING</p> | | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | | | | | |
| ANGULAR TOL | ± 1.0° | | | | | | | | |
| 4 PLACES | ± | | | | | | | | |
| 3 PLACES | ± | | | | | | | | |
| 2 PLACES | ± 0.15 | EC NO: 712623 | 2022/05/25 | DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION | | |
| 1 PLACE | ± 0.25 | DRWN: CHETHH2 | 2022/05/25 | 747683506 | PSD | ASY | A | | |
| 0 PLACES | ± | CHK'D: DKUMARG | 2022/06/29 | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRAWING | SERIES | SEE P/N TABLE | | 1 OF 7 | | |

CAGE ASSEMBLY OPTIONS

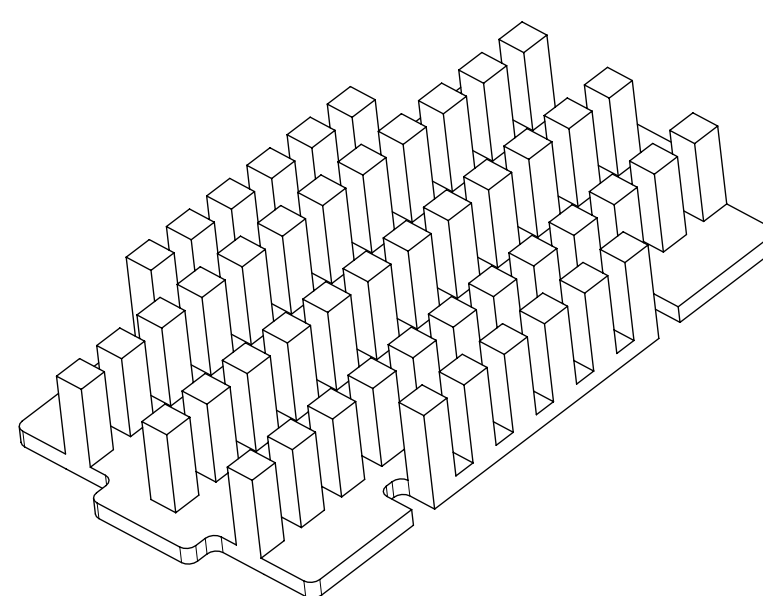
747683506 SHOWN



HEATSINK HEIGHT OPTIONS

| OVERALL HEATSINK HEIGHT | DIM "A" |
|-------------------------|---------|
| SAN | 16.0 |

SAN HEAT SINK
(PIN STYLE)



HEIGHT OF HEATSINK WITH MODULE INSERTED.
DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

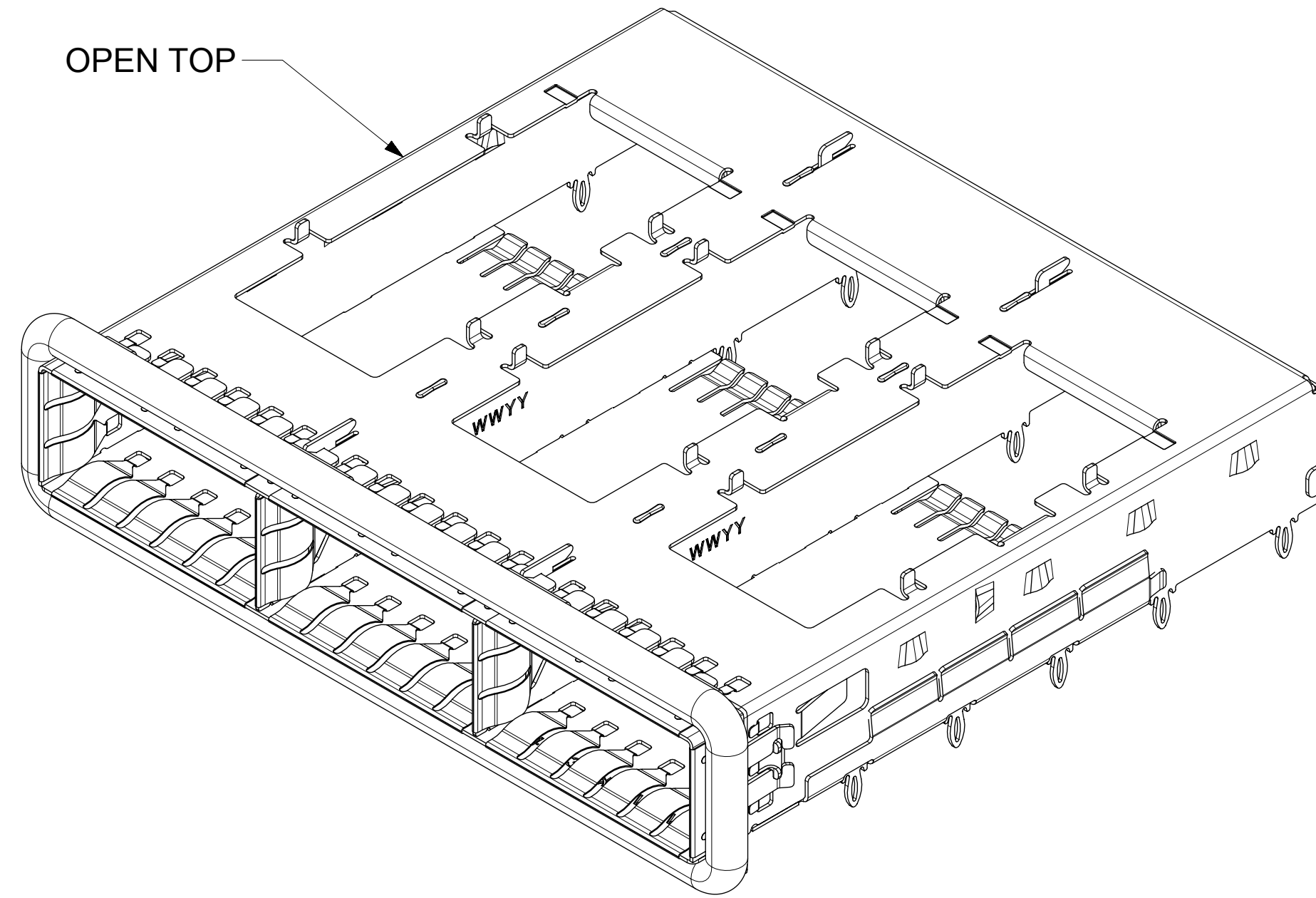
| | | | | | | | |
|--|-------|--------------------------------------|--|---|--|----------------------|--|
| DIMENSION UNITS | SCALE | CURRENT REV DESC: SEE REVISION TABLE | | | | | |
| mm | 3.5:1 | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | EC NO: 712623 DRWN: CHETHH2 2022/05/25 CHK'D: DKUMARG 2022/06/29 APPR: SCHIEN 2022/07/07 | | | |
| ANGULAR TOL ± 1.0° | | | | INITIAL REVISION: DRWN: CHETHH2 2022/05/25 APPR: SCHIEN 2022/07/07 | | | |
| 4 PLACES ± | | | | DOCUMENT NUMBER | | | |
| 3 PLACES ± | | | | 747683506 | | | |
| 2 PLACES ± 0.15 | | | | DOC TYPE DOC PART REVISION | | | |
| 1 PLACE ± 0.25 | | | | PSD ASY A | | | |
| 0 PLACES ± | | | | MATERIAL NUMBER CUSTOMER SHEET NUMBER | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | THIRD ANGLE PROJECTION | | DRAWING SERIES | |
| | | | | D-SIZE 74768 | | SEE P/N TABLE 2 OF 7 | |

NOTE:
 1. FOR LIGHT PIPE OPTIONS SEE SHEET 3.
 2. HEIGHT OF HEATSINK WITH MODULE INSERTED.
 DIMENSION MAY BE LESS DUE TO MODULE AND HEATSINK VARIATIONS.

PART NUMBER SELECTION

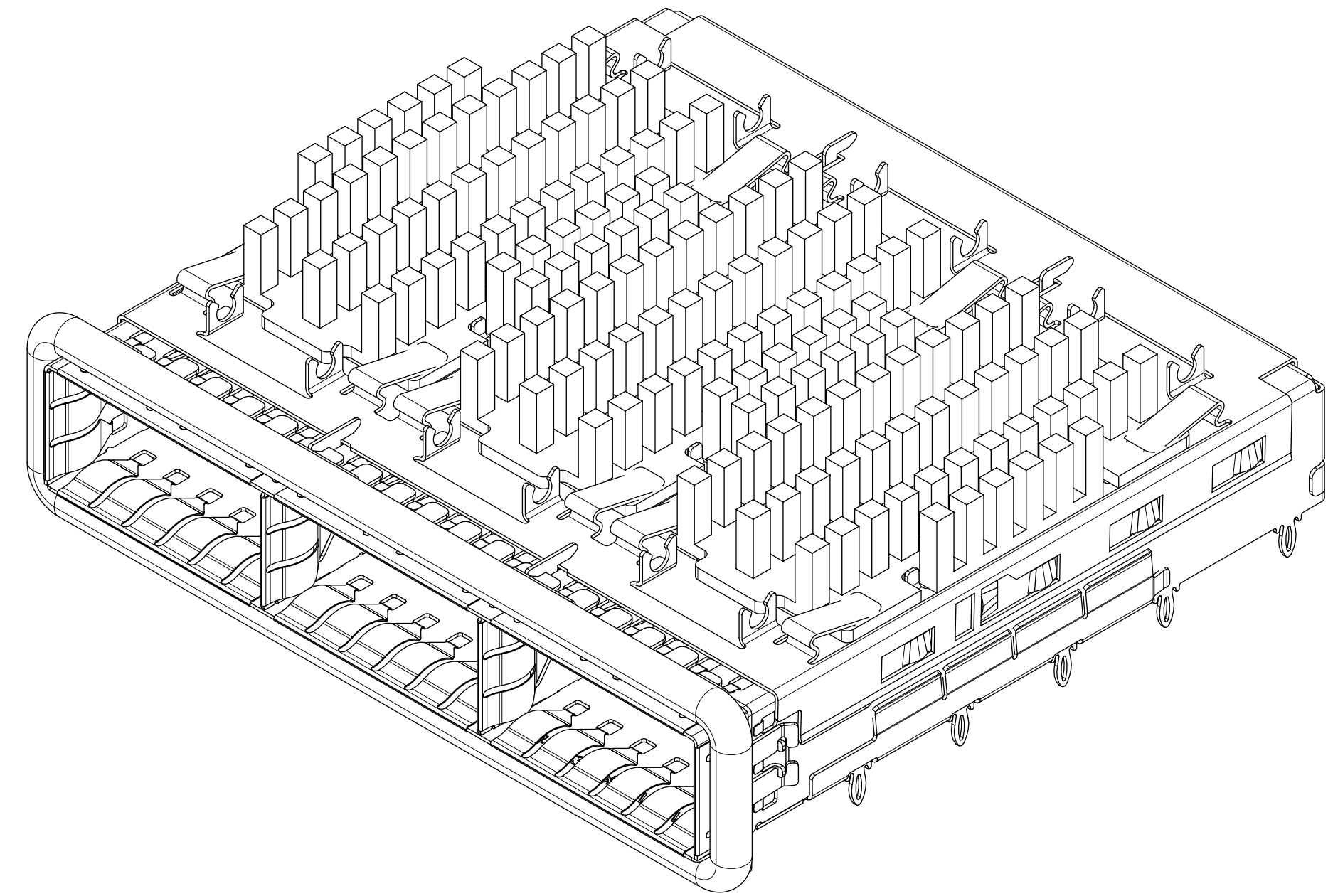
NO HEAT SINKS
NO LIGHT PIPES

OPEN TOP



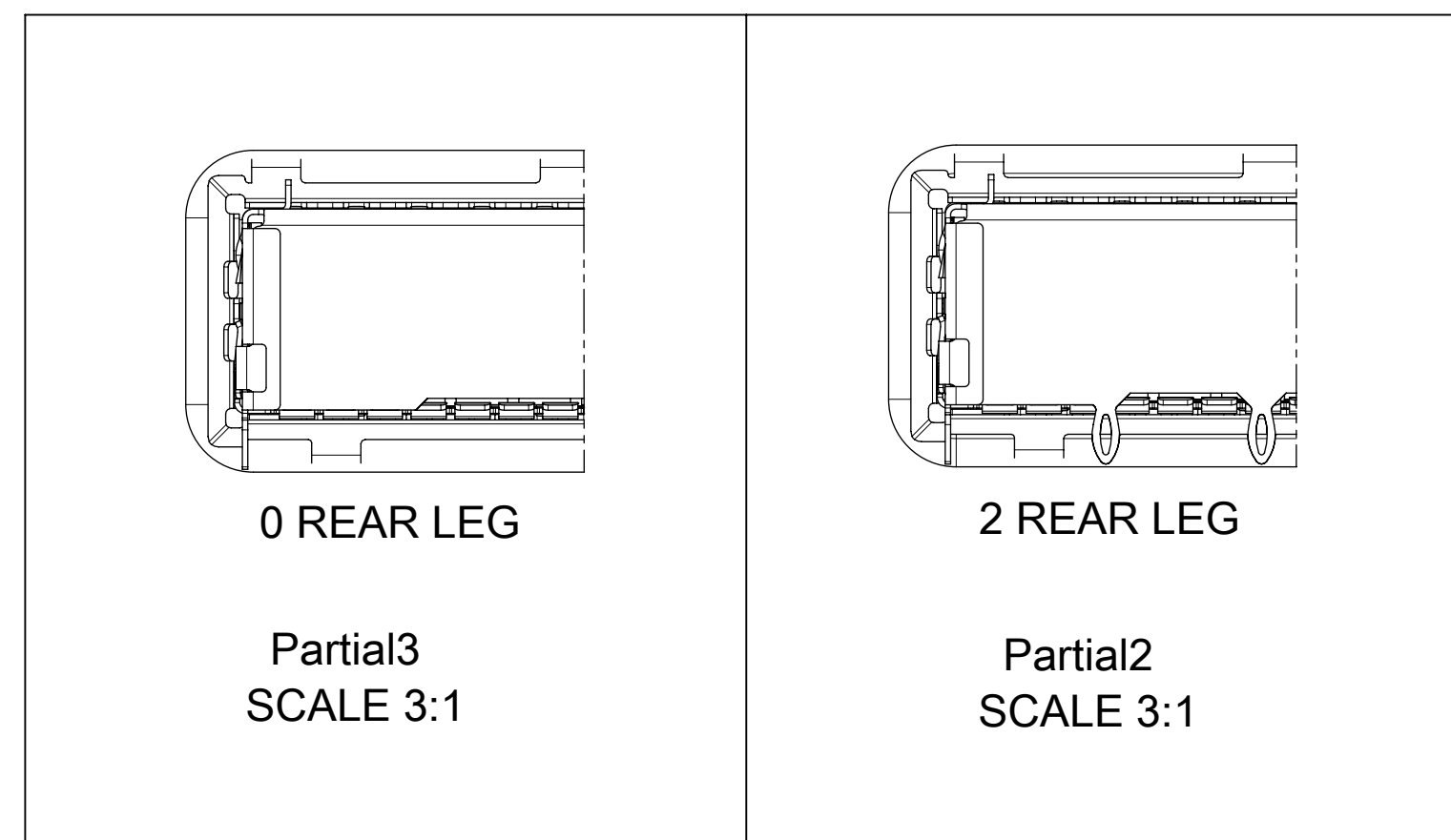
| MOLEX P/N | GASKET STYLE | # OF REAR LEGS PER PORT |
|-----------|--------------|-------------------------|
| 747683210 | ROUND | 0 |
| 747683212 | ROUND | 2 |

WITH HEAT SINKS
NO LIGHT PIPES

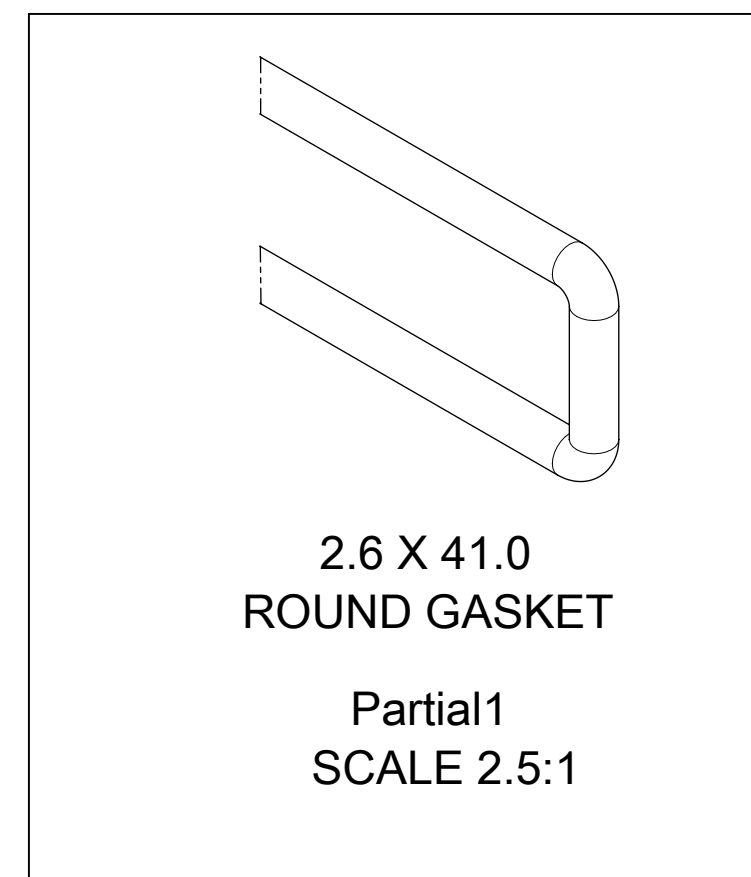


| MOLEX P/N | GASKET STYLE | HS | # OF REAR LEGS PER PORT |
|-----------|--------------|-----|-------------------------|
| 747683506 | ROUND | SAN | 2 |

REAR LEG OPTIONS



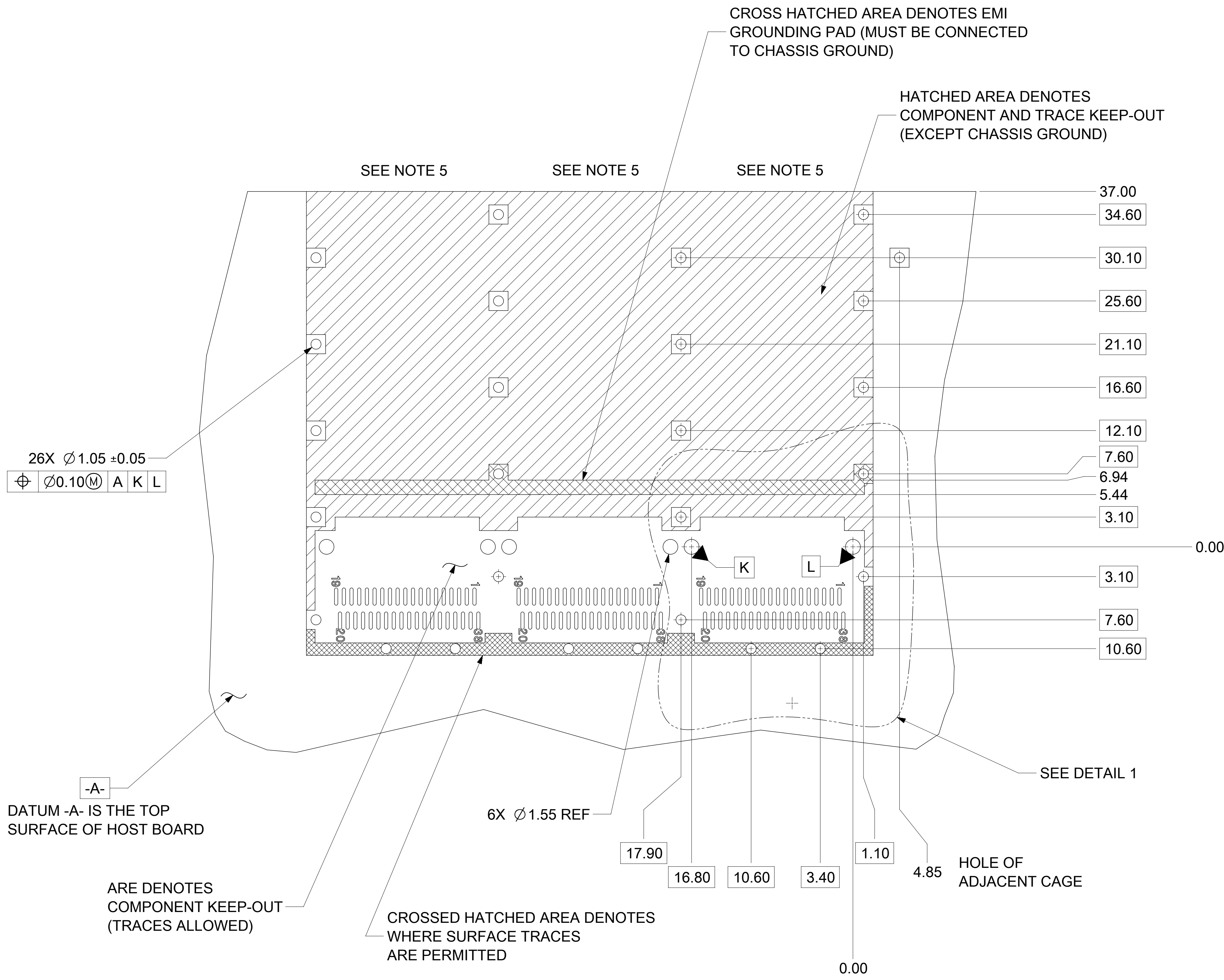
ELASTOMERIC GASKET OPTIONS



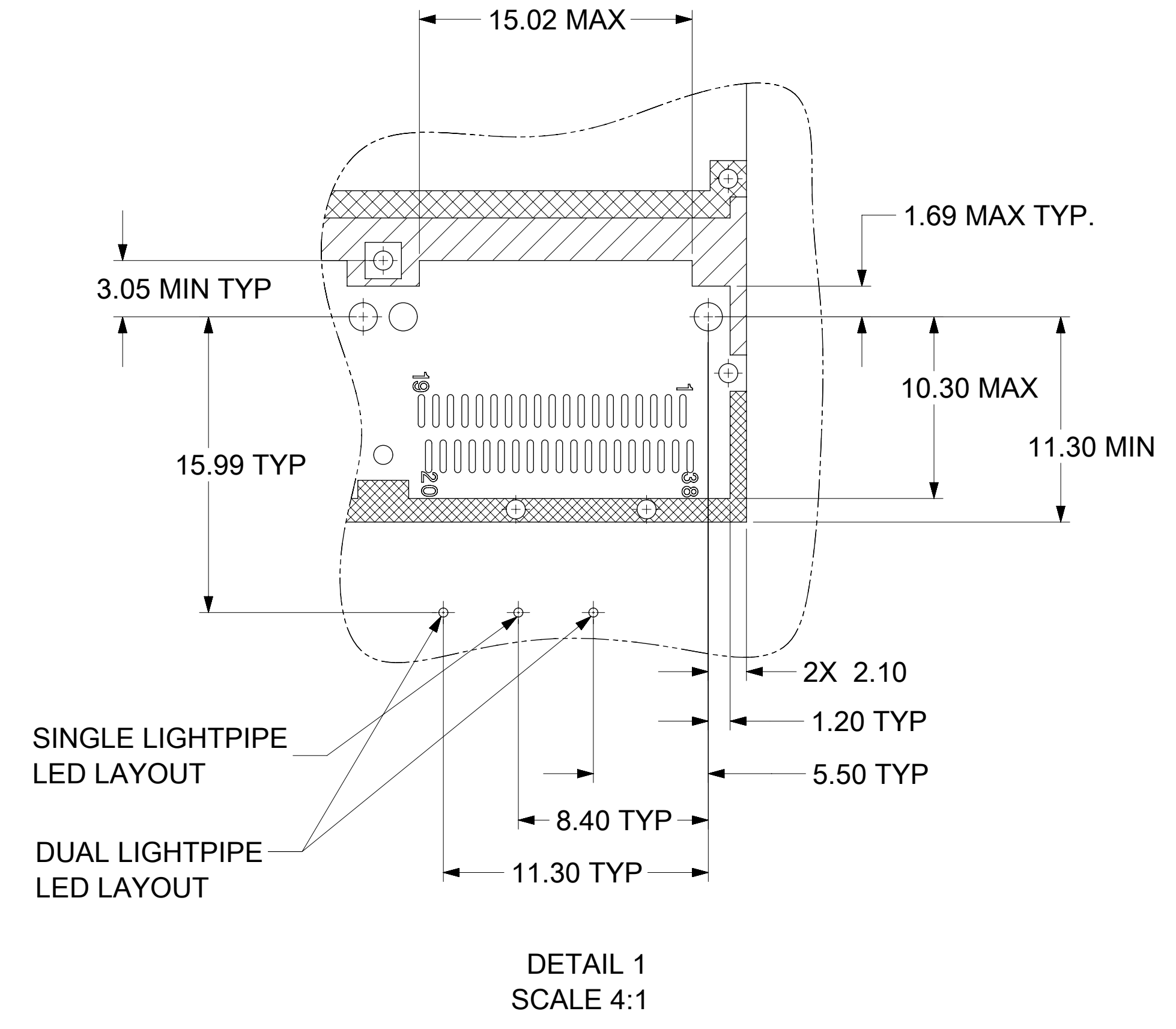
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| | | | | | | | |
|--|--------|--------------------------------------|--|---|--|--------------|--|
| DIMENSION UNITS | SCALE | CURRENT REV DESC: SEE REVISION TABLE | | molex | | | |
| mm | 3:1 | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | QSFP+ 1X3 GANGED CAGE, GASKET TYPE W/ SUS INNER SPRING FINGER | | | |
| ANGULAR TOL | ± 1.0° | EC NO: 712623 | | PRODUCT CUSTOMER DRAWING | | | |
| 4 PLACES | ± | DRWN: CHETHH2 2022/05/25 | | DOCUMENT NUMBER | | | |
| 3 PLACES | ± | CHK'D: DKUMARG 2022/06/29 | | 747683506 | | | |
| 2 PLACES | ± 0.15 | APPR: SCHIEN 2022/07/07 | | PSD ASY A | | | |
| 1 PLACE | ± 0.25 | INITIAL REVISION: | | REVISION | | | |
| 0 PLACES | ± | DRWN: CHETHH2 2022/05/25 | | MATERIAL NUMBER | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | APPR: SCHIEN 2022/07/07 | | CUSTOMER | | | |
| THIRD ANGLE PROJECTION | | DRAWING | | SERIES | | SHEET NUMBER | |
| D-SIZE | | 74768 | | SEE P/N TABLE | | 3 OF 7 | |

PCB LAYOUT FOR SINGLE SIDED MOUNTING



HOST CONNECTOR DETAIL



- NOTES:
- PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMEND PADS TO BE 2.00mm SQUARE)
 - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
 - CONNECTOR PAD LAYOUT PER QSFP MSA WILL ACCOMODATE MOLEX CONNECTOR 75586-0010 OR 75586-0011.
 - SINGLE SIDE BOARD THICKNESS:
NONIMAL: 1.60
MINIMUM: 1.44
 - SPACING BETWEEN PORTS IS 19.00
 - LED SHOULD BE PLACED RELATIVE TO THE QSFP CONNECTOR POST HOLES

| | | | | | | | | | |
|---|--------|--|------------|----------------------------|---------------|-----------------|--------------|----------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | |
| DIMENSION UNITS | SCALE | CURRENT REV DESC: SEE REVISION TABLE | | | | | | | |
| mm | 4:1 | <div style="text-align: center;">molex</div> QSFP+ 1X3 GANGED CAGE, GASKET TYPE W/ SUS INNER SPRING FINGER PRODUCT CUSTOMER DRAWING | | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | | | | | |
| ANGULAR TOL | ± 1.0° | | | | | | | | |
| 4 PLACES | ± | | | | | | | | |
| 3 PLACES | ± | | | | | | | | |
| 2 PLACES | ± 0.15 | EC NO: 712623 | 2022/05/25 | DOCUMENT NUMBER | | | | | |
| 1 PLACE | ± 0.25 | DRWN: CHETHH2 | 2022/06/29 | DOC TYPE DOC PART REVISION | | | | | |
| 0 PLACES | ± | CHK'D: DKUMARG | 2022/07/07 | 747683506 PSD ASY A | | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | APPR: SCHIEN | 2022/07/07 | INITIAL REVISION: | | MATERIAL NUMBER | | CUSTOMER | |
| | | THIRD ANGLE PROJECTION | DRAWING | SERIES | SEE P/N TABLE | | SHEET NUMBER | | |
| | | | D-SIZE | 74768 | | | 4 OF 7 | | |

PCB LAYOUT FOR BELLY TO BELLY MOUNTING

CROSS HATCHED AREA DENOTES EMI GROUNDING PAD (MUST BE CONNECTED TO CHASSIS GROUND)

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

SEE NOTE 5

SEE NOTE 5

SEE NOTE 5

37.0 MAX.

34.60

30.10

25.60

21.10

16.60

12.10

7.60

6.94

5.44

3.10

0.00

3.10

7.60

10.60

NOTE:
SEE PREVIOUS SHEET 4 FOR
HOST CONNECTOR AND
LED LOCATION DETAILS

52X $\varnothing 1.05 \pm 0.05$
 $\varnothing 0.10$ M A K L

-A-
DATUM -A- IS THE TOP SURFACE OF HOST BOARD

ARE DENOTES COMPONENT KEEP-OUT (TRACES ALLOWED)

CROSSED HATCHED AREA DENOTES WHERE SURFACE TRACES ARE PERMITTED

6X $\varnothing 1.55$ REF.

HOLE OF ADJACENT CAGE

17.90

16.80

13.40

10.60

6.20

3.40

1.10

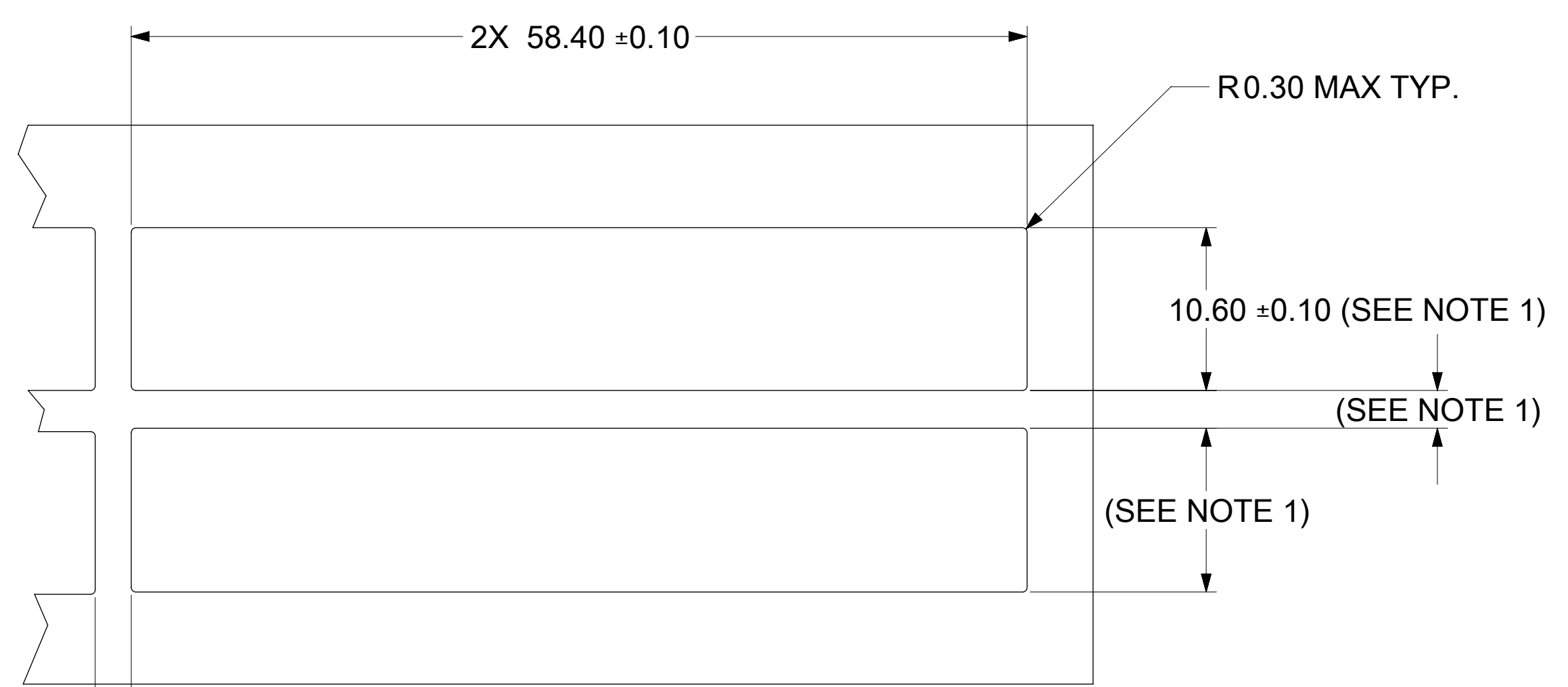
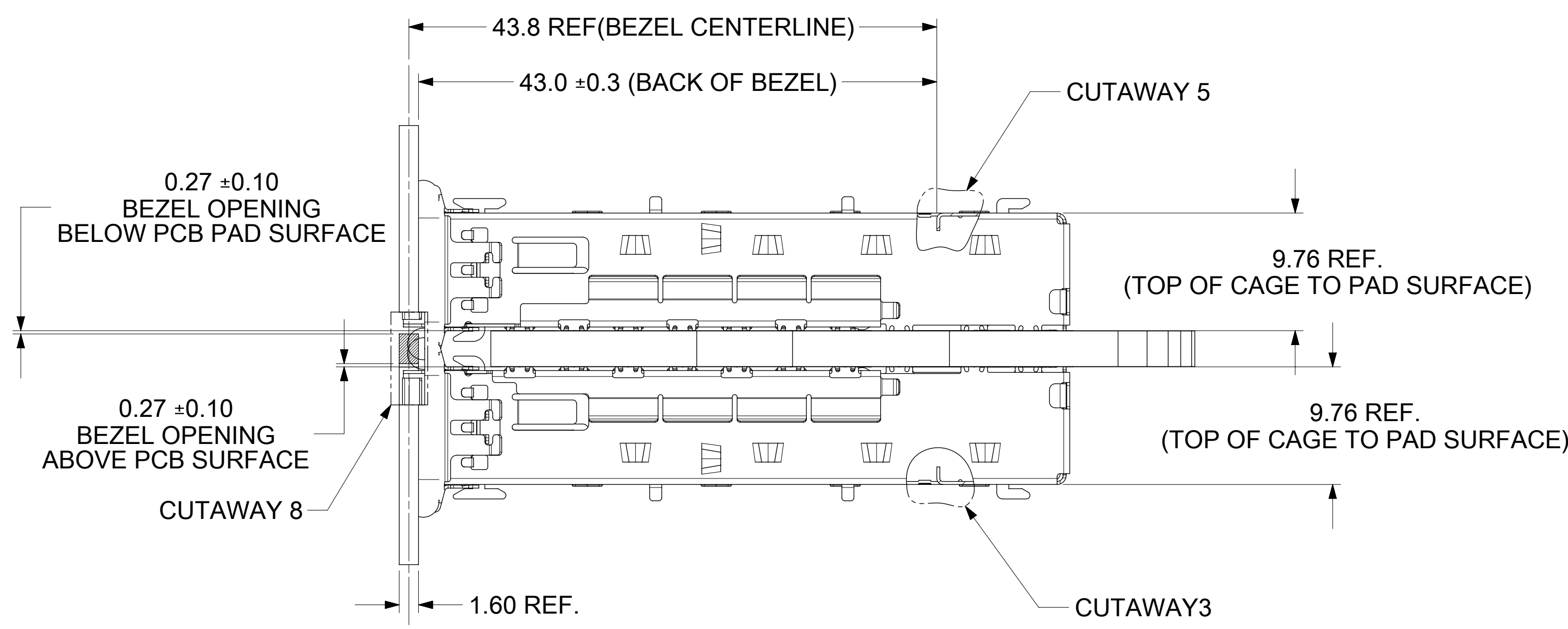
0.00

4.85

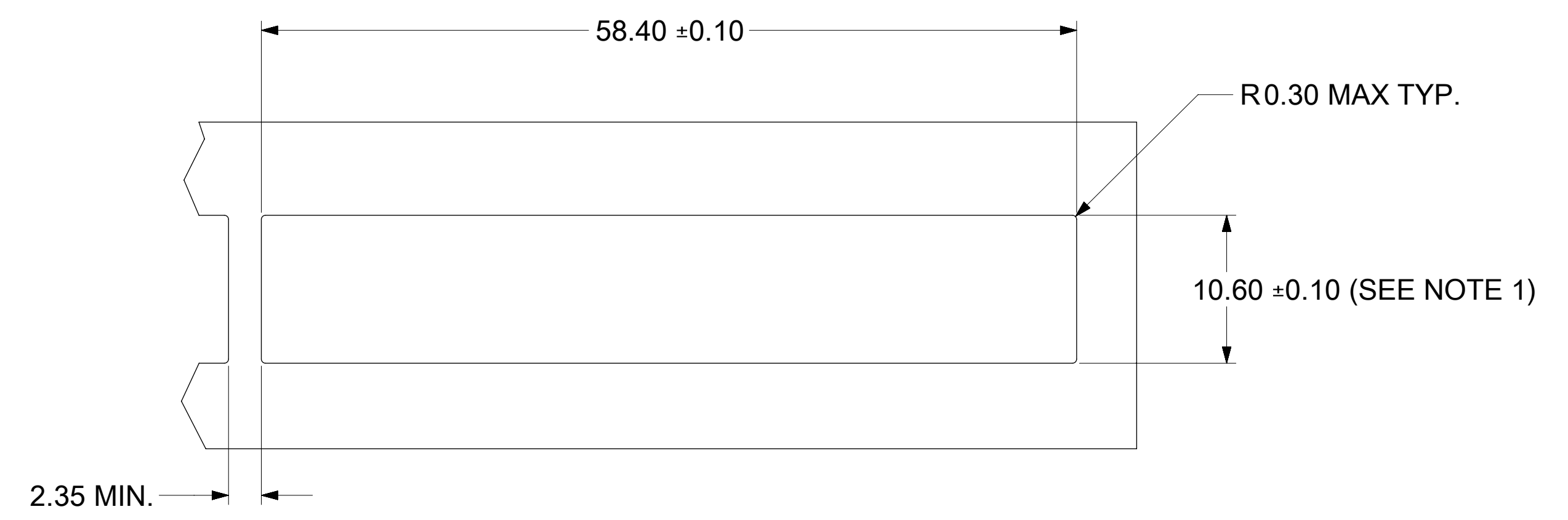
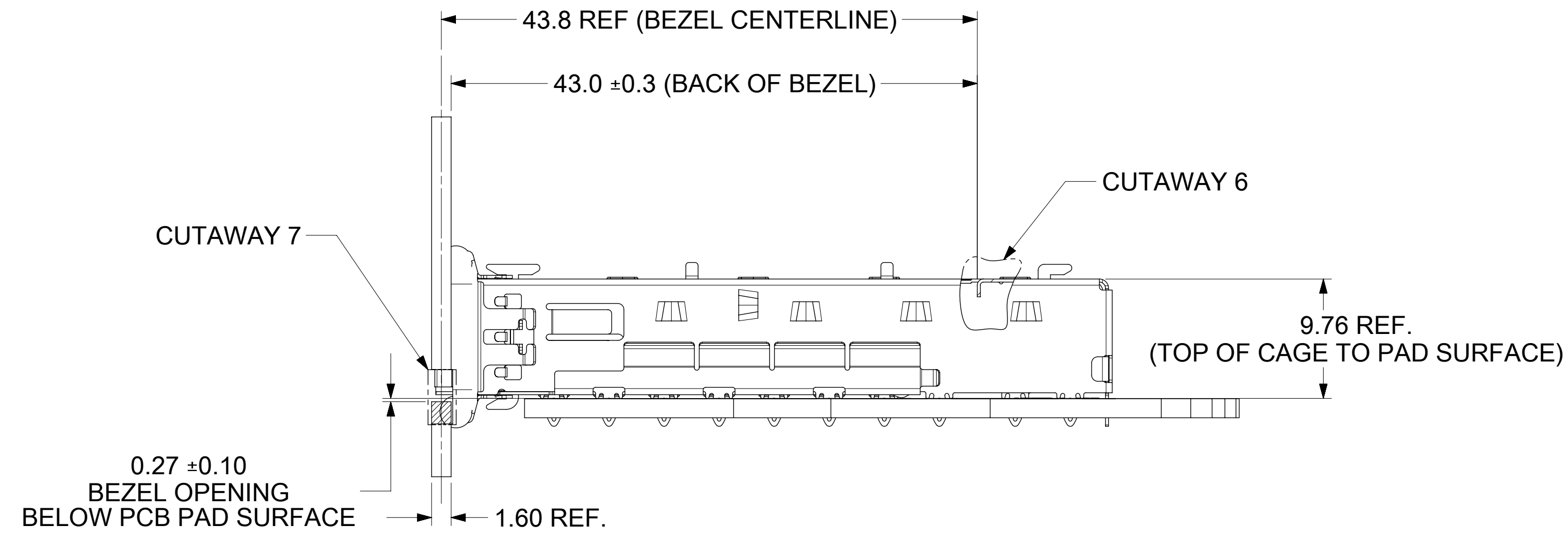
- NOTES:
- PADS AND VIAS CONNECT TO CHASSIS GROUND (RECOMMEND PADS TO BE 2.00mm SQUARE)
 - RECOMMENDED THRU HOLE PLATING INCLUDES HASL, OSP, OR IMMERSION (GOLD, SILVER, OR TIN).
 - CONNECTOR PAD LAYOUT PER QSFP MSA WILL ACCOMODATE MOLEX CONNECTOR 75586-0010 OR 75586-0011.
 - BELLY TO BELLY BOARD THICKNESS:
NONIMAL: 2.90
MINIMUM: 2.48
 - SPACING BETWEEN PORTS IS 19.00

| | | | | | | | | | |
|---|-----------------|--|-----------------|------------|--------------|--|--|--|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | |
| DIMENSION UNITS | SCALE | CURRENT REV DESC: SEE REVISION TABLE | | | | | | | |
| mm | 4:1 | <p>molex</p> <p>QSFP+ 1X3 GANGED CAGE, GASKET TYPE W/ SUS INNER SPRING FINGER</p> <p>PRODUCT CUSTOMER DRAWING</p> <p>DOCUMENT NUMBER: 747683506 DOC TYPE: PSD DOC PART: ASY REVISION: A</p> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p> | | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | | | | | |
| ANGULAR TOL | $\pm 1.0^\circ$ | | | | | | | | |
| 4 PLACES | \pm | | | | | | | | |
| 3 PLACES | \pm | | | | | | | | |
| 2 PLACES | ± 0.15 | EC NO: 712623 | DRWN: CHETHH2 | 2022/05/25 | | | | | |
| 1 PLACE | ± 0.25 | CHK'D: DKUMARG | 2022/06/29 | | | | | | |
| 0 PLACES | \pm | APPR: SCHIEN | 2022/07/07 | | | | | | |
| INITIAL REVISION: | | DRWN: CHETHH2 | 2022/05/25 | | | | | | |
| THIRD ANGLE PROJECTION | | APPR: SCHIEN | 2022/07/07 | | | | | | |
| DRAWING | | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER | | | | |
| D-SIZE | | 74768 | SEE P/N TABLE | | 5 OF 7 | | | | |

BOARD AND BEZEL POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING



BOARD AND BEZEL POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING



NOTES:
 1. PCB THICKNESS VARIATION MUST BE CONSIDERED WHEN DETERMINING BEZEL OPENING, SIZE AND LOCATION.

| | | | | | | | | | | | |
|---|--|-------|--|--------------------------------------|--|--------------|--|---------------------|--|----------------------------|--|
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| DIMENSION UNITS | | SCALE | | CURRENT REV DESC: SEE REVISION TABLE | | | | | | molex | |
| mm | | 3:1 | | | | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | EC NO: 712623 | | | | | | | |
| ANGULAR TOL ± 1.0° | | | | DRWN: CHETHH2 | | | | 2022/05/25 | | | |
| 4 PLACES ± | | | | CHK'D: DKUMARG | | | | 2022/06/29 | | | |
| 3 PLACES ± | | | | APPR: SCHIEN | | | | 2022/07/07 | | | |
| 2 PLACES ± 0.15 | | | | INITIAL REVISION: | | | | | | | |
| 1 PLACE ± 0.25 | | | | DRWN: CHETHH2 | | | | 2022/05/25 | | | |
| 0 PLACES ± | | | | APPR: SCHIEN | | | | 2022/07/07 | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | THIRD ANGLE PROJECTION | | DRAWING | | SERIES | | MATERIAL NUMBER | |
| | | | | | | D-SIZE | | 74768 | | SEE P/N TABLE | |
| DOCUMENT STATUS | | | | P1 | | RELEASE DATE | | 2022/07/07 13:29:43 | | DOCUMENT NUMBER | |
| | | | | | | | | 747683506 | | DOC TYPE DOC PART REVISION | |
| | | | | | | | | PSD ASY | | A | |
| | | | | | | | | CUSTOMER | | SHEET NUMBER | |
| | | | | | | | | | | 6 OF 7 | |

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------|
| A | 2022/06/25 | INITIAL RELEASE |
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|---|-------|--|--------|-------|--|---|--|--------------|----------|----------|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | |
| DIMENSION UNITS | SCALE | CURRENT REV DESC: SEE REVISION TABLE | | | | molex | | | | |
| mm | 1:1 | EC NO: 712623 | | | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | DRWN: CHETHH2 2022/05/25 | | | | QSFP+ 1X3 GANGED CAGE, GASKET TYPE W/ SUS INNER SPRING FINGER | | | | |
| ANGULAR TOL ± 1.0° | | CHK'D: DKUMARG 2022/06/29 | | | | PRODUCT CUSTOMER DRAWING | | | | |
| 4 PLACES ± | | APPR: SCHIEN 2022/07/07 | | | | DOCUMENT NUMBER | | | | |
| 3 PLACES ± | | INITIAL REVISION: | | | | 747683506 | | DOC TYPE | DOC PART | REVISION |
| 2 PLACES ± 0.15 | | DRWN: CHETHH2 2022/05/25 | | | | PSD | | ASY | A | |
| 1 PLACE ± 0.25 | | APPR: SCHIEN 2022/07/07 | | | | MATERIAL NUMBER | | CUSTOMER | | |
| 0 PLACES ± | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | SEE P/N TABLE | | SHEET NUMBER | | |
| THIRD ANGLE PROJECTION | | DRAWING | SERIES | 74768 | | 7 OF 7 | | | | |
| | | | D-SIZE | | | | | | | |

| | | | | |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2022/07/07 | 13:29:43 |
|-----------------|----|--------------|------------|----------|