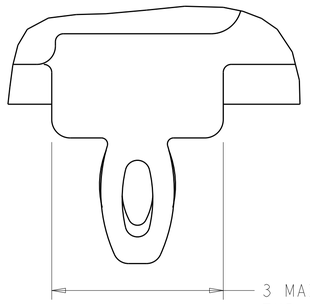
LOC	DIST
GP	00

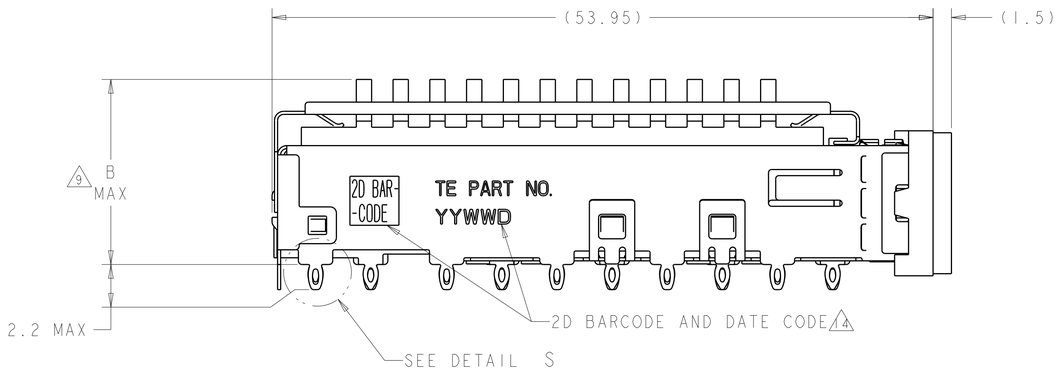
REVISIONS

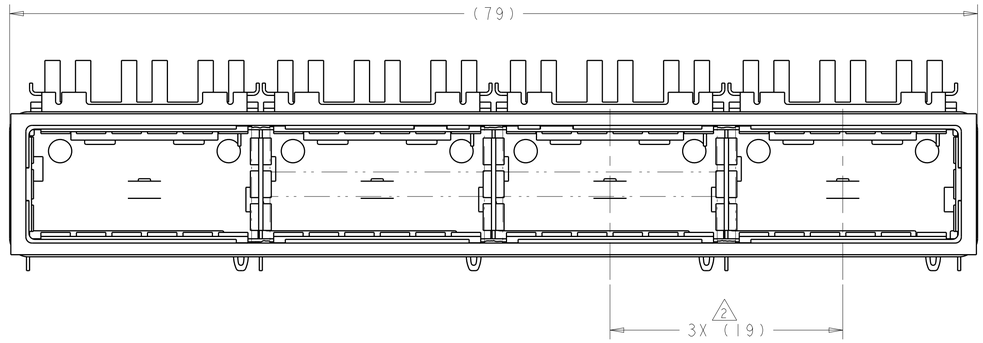
P	LTR	DESCRIPTION	DATE	DWN	APVD
	I	PRELIMINARY	23FEB2012	KS	AC
	A	REVISED PER ECR-12-006970	17APR2012	KS	AC
	B	REVISED PER ECO-15-005721	4AUG2015	RG	SH

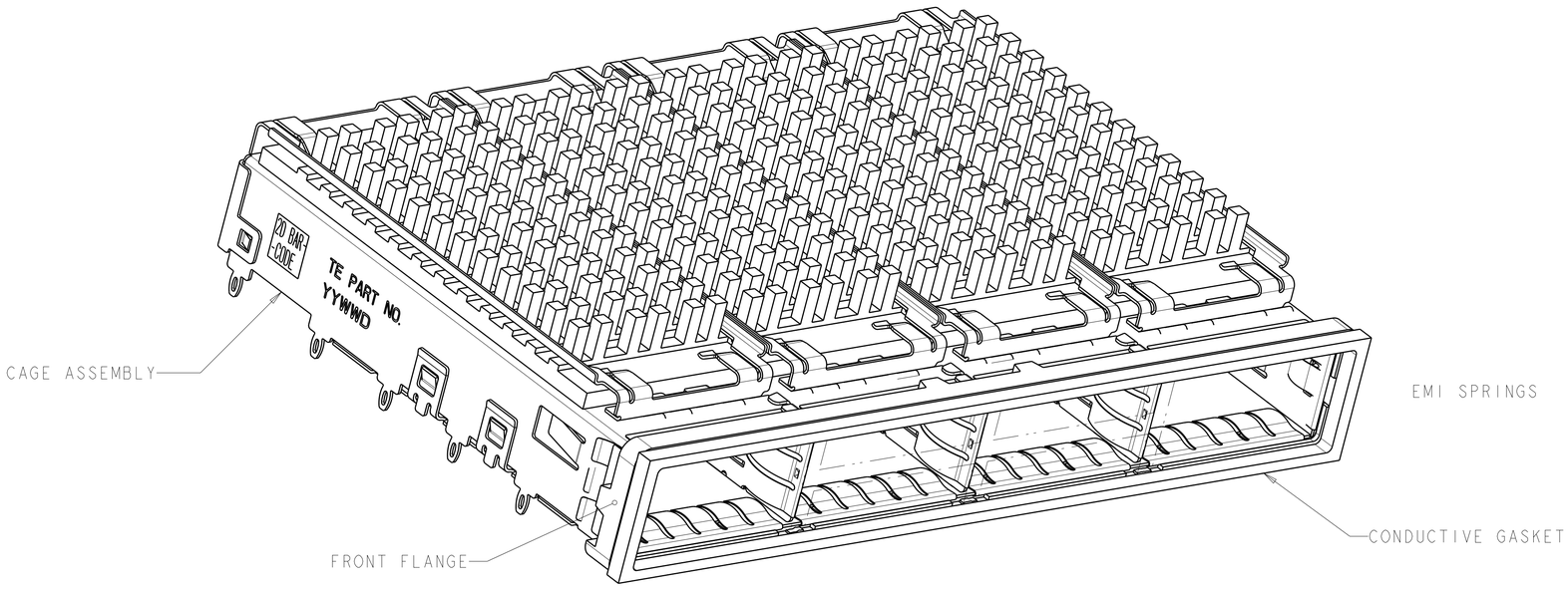
1. CAGE ASSEMBLY MATERIAL: NICKEL SILVER, 0.25 THICK
   HEAT SINK MATERIAL: ALUMINUM
   HEAT SINK CLIP MATERIAL: STAINLESS STEEL
   EMI SPRING MATERIAL: COPPER ALLOY
   FRONT FLANGE MATERIAL: ZINC ALLOY
   CONDUCTIVE GASKET MATERIAL: RUBBER FOAM
2. PITCH BETWEEN PORTS OF ONE 1X4 CAGE ASSEMBLY.
3. SPACING BETWEEN CAGES ON THE SAME PC BOARD, TO BE SPECIFIED BY CUSTOMER, MUST COMPLY WITH MINIMUM DIMENSIONS SHOWN.
4. REFERENCE APPLICATION SPEC 114-13218 FOR RECOMMENDED DRILL HOLE DIAMETER AND PLATING THICKNESS.
5. DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
6. DIMENSION C IS THE NOMINAL THICKNESS OF CUSTOMER SUPPLIED PC BOARD,
   SINGLE SIDED PC BOARD MINIMUM THICKNESS = 1.45mm
   DOUBLE SIDED PC BOARD MINIMUM THICKNESS = 2.2mm PER QSFP.
7. HEAT SINKS AND CLIPS SHIPPED ASSEMBLED TO CAGE ASSEMBLY. CAGE ASSEMBLY MAY BE PRESSED INTO THE PCB AS SHIPPED.
8. DATUM -A- IS TOP SURFACE OF PC BOARD.
9. DIMENSION APPLIES WITH MODULE INSERTED IN CAGE.
10. UNPLATED THRU HOLE.
11. MATES WITH QSFP MSA COMPATIBLE TRANSCEIVER.
12. SURFACE TRACES PERMITTED WITHIN THIS AREA EXCEPT WHERE CAGE STANDOFFS, SHOWN IN DETAIL S, CONTACT PC BOARD.
13. BASELINE FOR THESE DIMENSIONS IS THE CENTER OF COMPLIANT PIN HOLE.
14. 2D BARCODE AND DATE CODE (YYWWD) MARKED ON SIDE OF CAGE.
15. REFERENCE APP SPEC 114-13218 FOR GASKET THICKNESS CALCULATION.
16. EMI SPRING FINISH: 2µm MINIMUM TIN
    FRONT FLANGE FINISH: 3µm MINIMUM TIN OVER 1.27µm MINIMUM NICKEL OVER 5.08µm MINIMUM COPPER.
    HEAT SINK FINISH: NICKEL.



DETAIL S (12)
SCALE 20:1







23.0	NETWORKING	2174754-3
16.0	SAN	2174754-2
13.7	PCI	2174754-1
B	HEAT SINK PROFILE	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL - (1)
FINISH (16)

DWN KINSEN SUN 22FEB2012
CHK DENNY ZHU 22FEB2012
APVD ALEX CAI 22FEB2012
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSFP

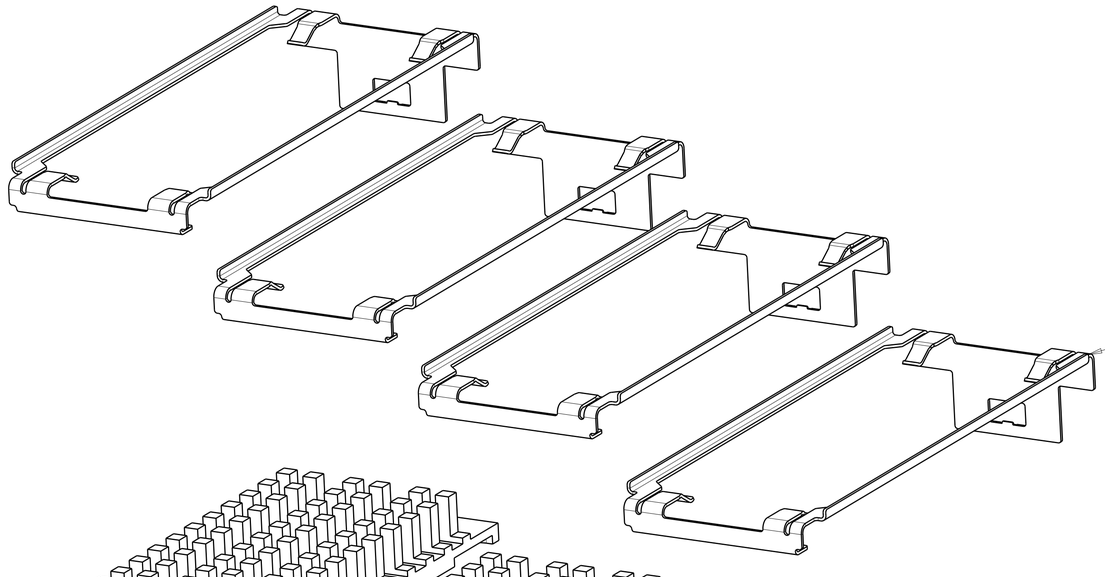
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2174754	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 5 | REV B

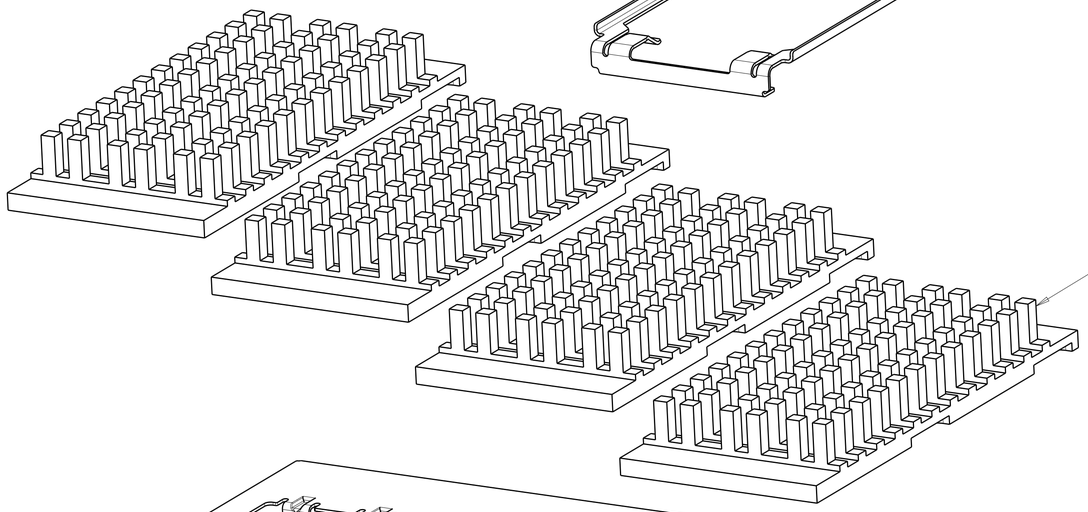
LOC	DIST
GP	00

REVISIONS

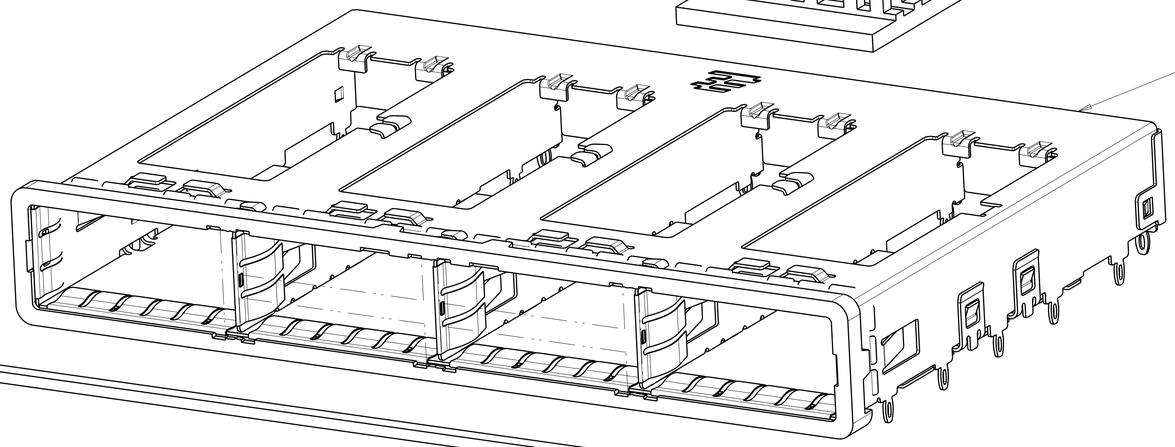
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



HEAT SINK CLIPS
QUANTITY: 4
7

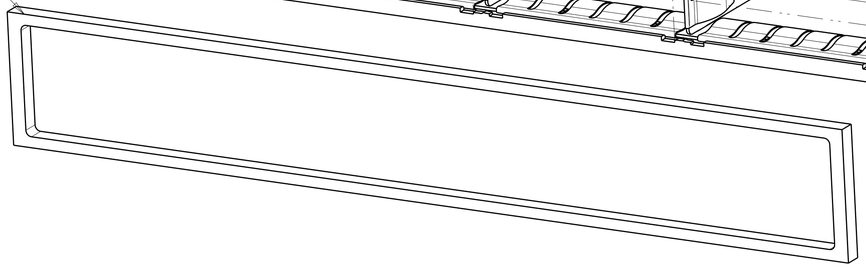


72 PIN HEAT SINKS
QUANTITY: 4
7



IX4 BEHIND BEZEL QSFP
CAGE ASSEMBLY
QUANTITY: 1

CONDUCTIVE GASKET
QUANTITY: 1



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DIMENSIONS: mm

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0 PLC ±-
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL -
FINISH -

DWN KINSEN SUN 22FEB2012
CHK DENNY ZHU 22FEB2012
APVD ALEX CAI 22FEB2012
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME IX4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSFP

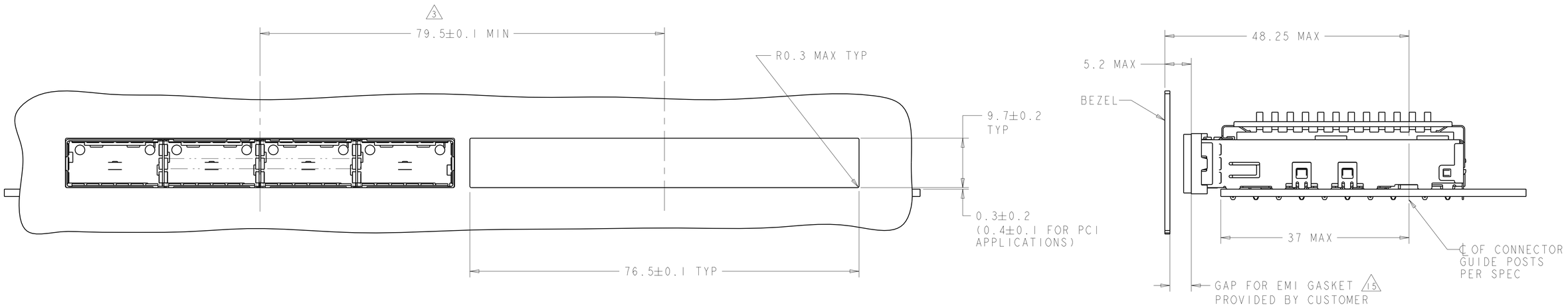
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2174754	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 5 | REV B

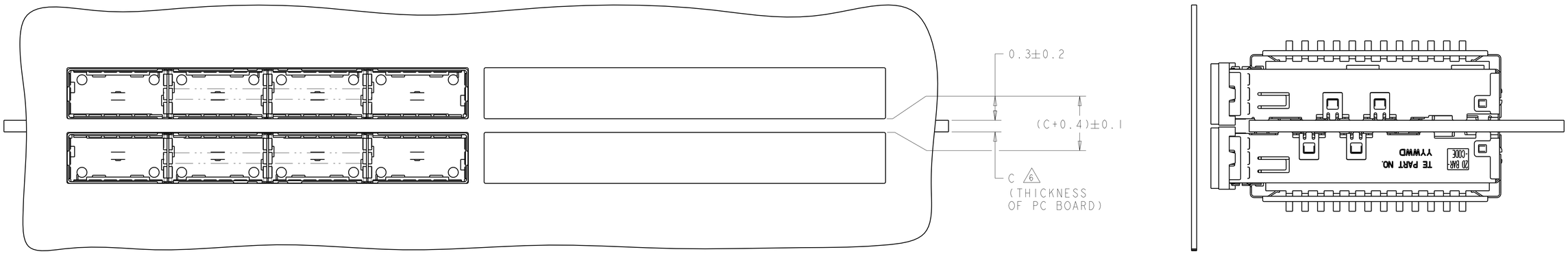
LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



ONE SIDED CONFIGURATION
SCALE 5:2



BELLY TO BELLY CONFIGURATION SIMILAR
TO ONE SIDED EXCEPT WHERE NOTED
SCALE 5:2

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
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2 PLC ±0.1
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL -
FINISH -

DWN KINSEN SUN 22FEB2012
CHK DENNY ZHU 22FEB2012
APVD ALEX CAI 22FEB2012

TE Connectivity

NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSFP

PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

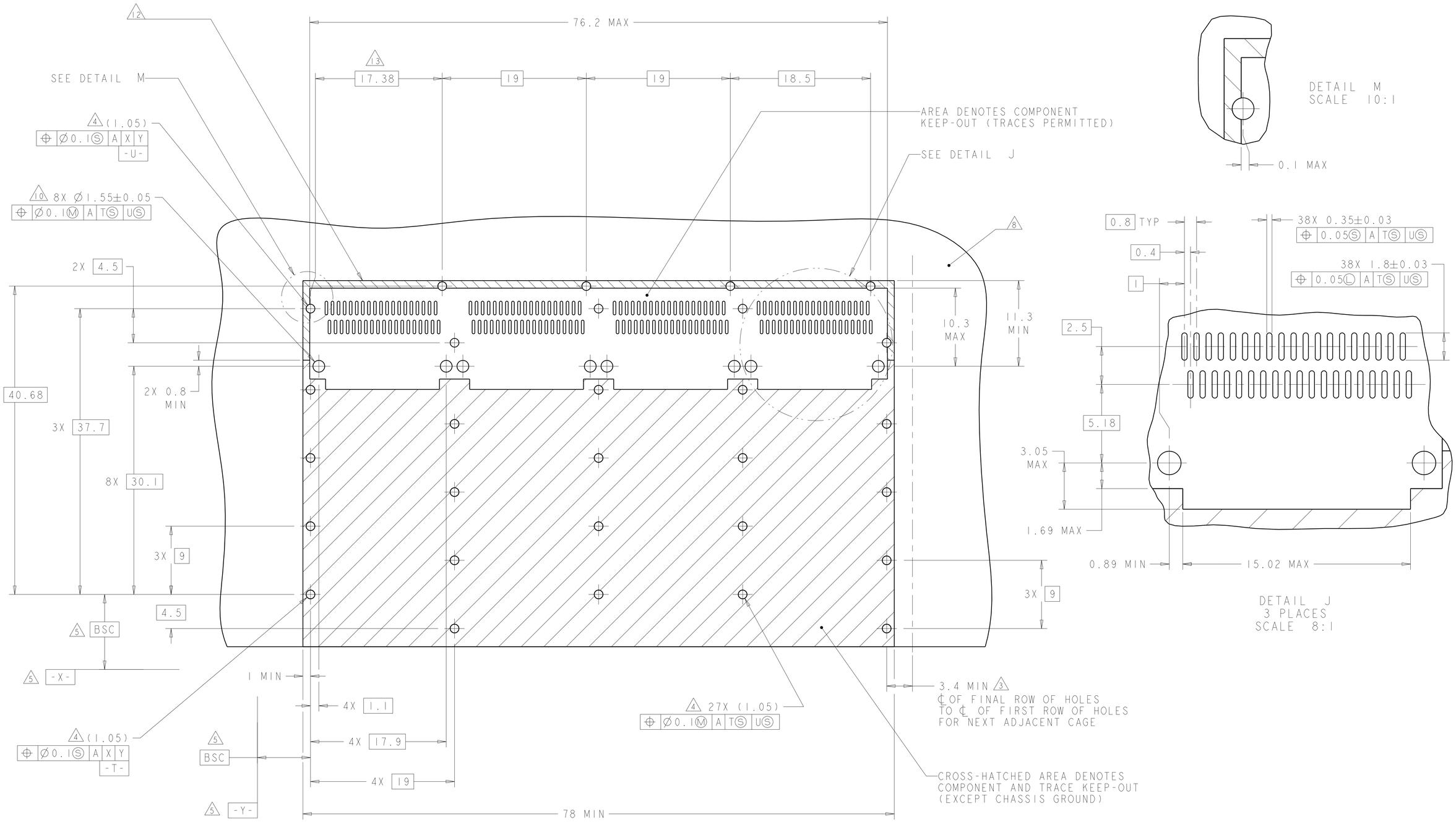
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2174754	-

CUSTOMER DRAWING | SCALE 4:1 | SHEET 3 OF 5 | REV B

LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



DETAIL M
SCALE 10:1

DETAIL J
3 PLACES
SCALE 8:1

RECOMMENDED PC BOARD LAYOUT
SINGLE SIDE MOUNT CONFIGURATION
SCALE 4:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±

MATERIAL - -
FINISH - -

DWN KINSEN SUN 22FEB2012
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SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
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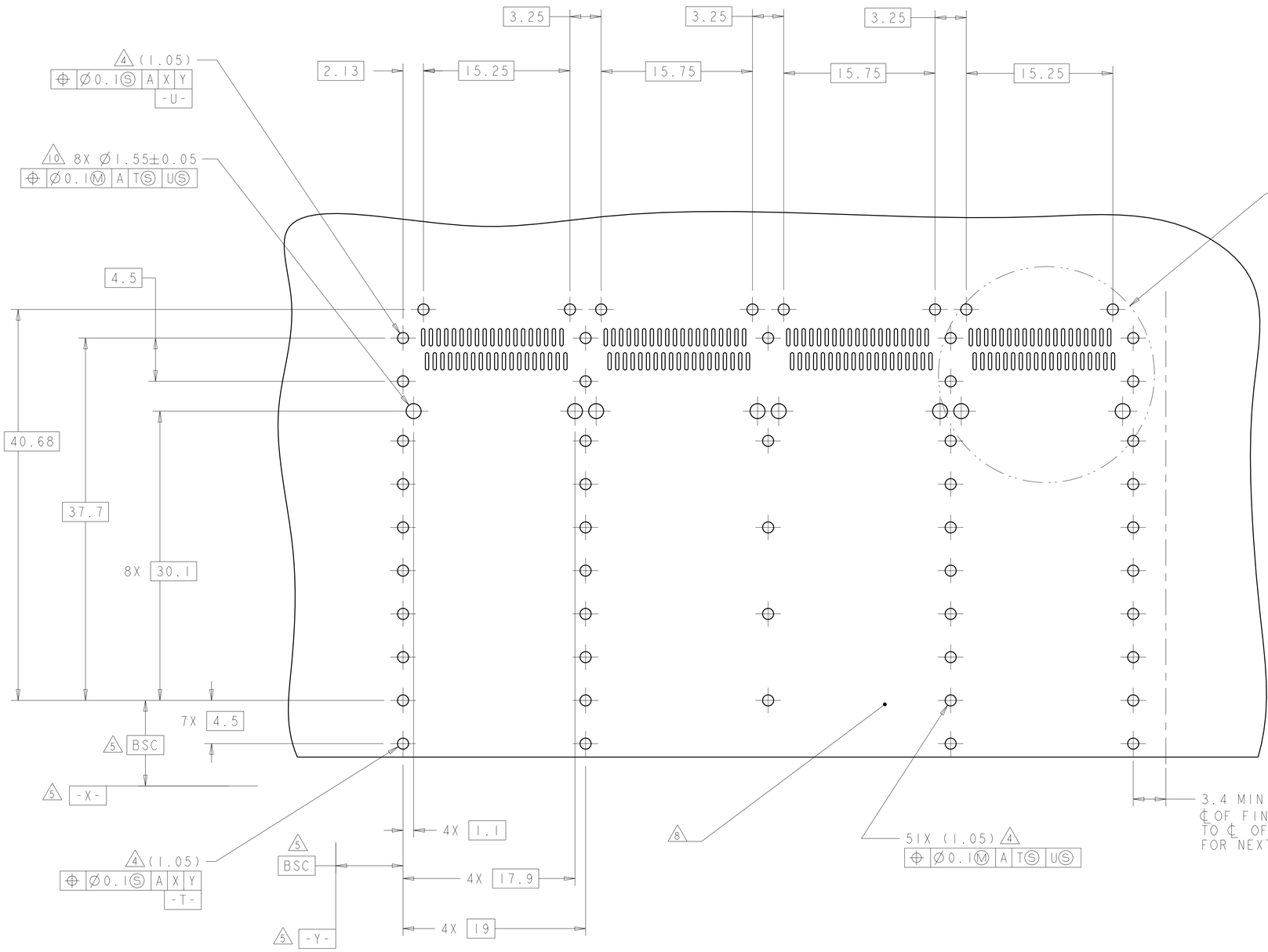
CUSTOMER DRAWING | SCALE 4:1 | SHEET 4 OF 5 | REV B

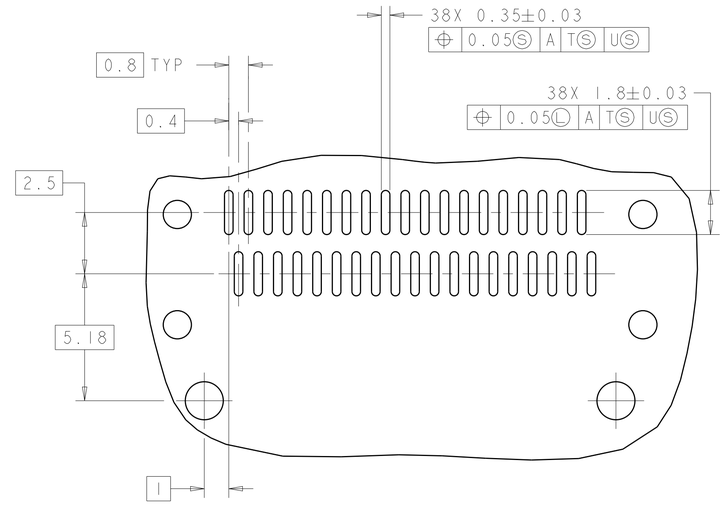
LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



RECOMMENDED PC BOARD LAYOUT
BELLY TO BELLY CONFIGURATION
SEE SHEET 4 FOR COMPONENT
AND TRACE KEEP-OUTS
SCALE 4:1



DETAIL K
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±0.1
2 PLC ±0.1
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±

MATERIAL - -
FINISH - -

DWN KINSEN SUN 22FEB2012
CHK DENNY ZHU 22FEB2012
APVD ALEX CAI 22FEB2012
PRODUCT SPEC 108-2286
APPLICATION SPEC 114-13218
WEIGHT -

TE Connectivity

NAME 1X4 CAGE ASSEMBLY, BEHIND BEZEL, W/ HEAT SINKS, CONDUCTIVE GASKET, QSFP

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-2174754 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE 4:1 | SHEET 5 OF 5 | REV B