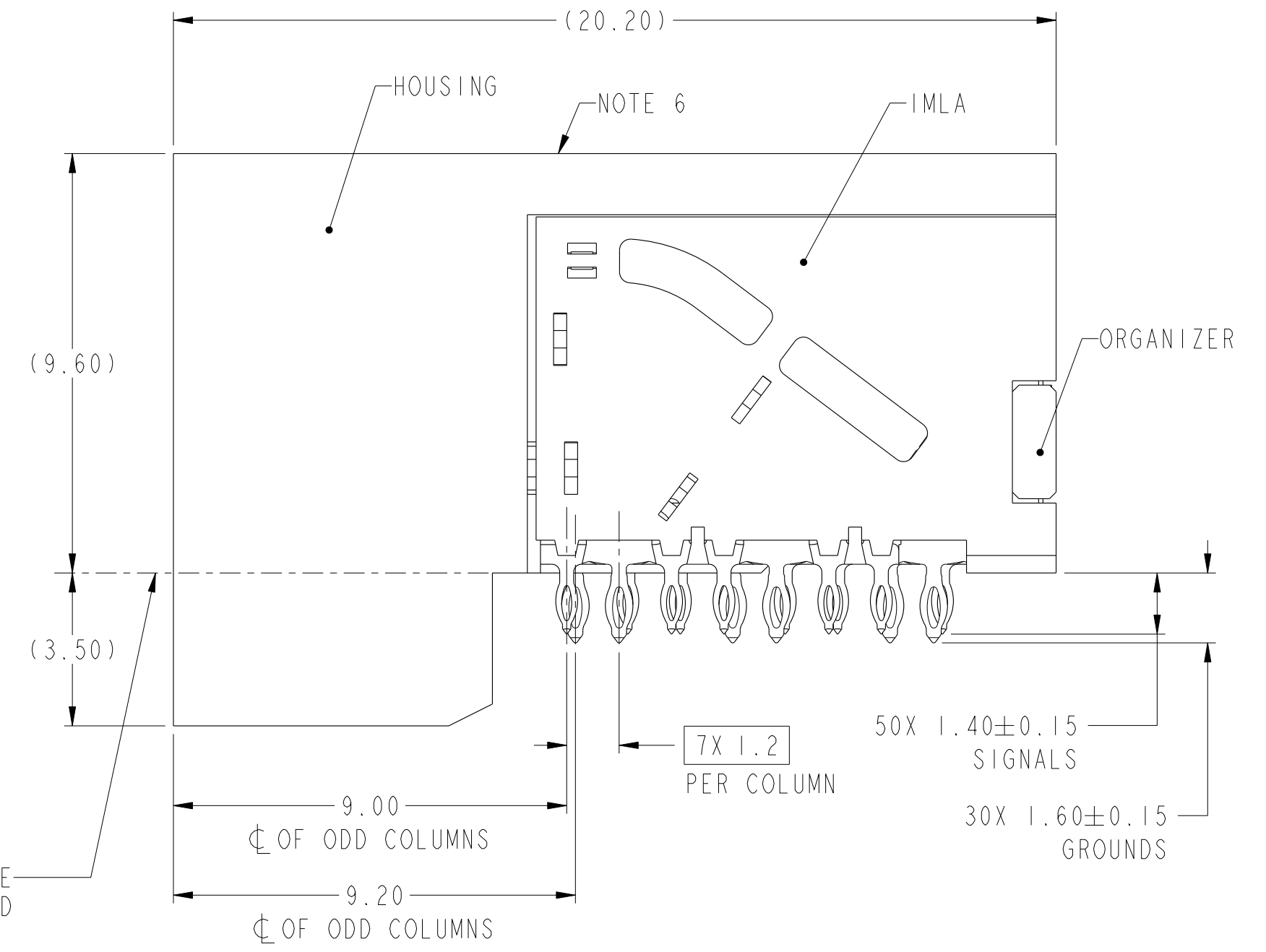
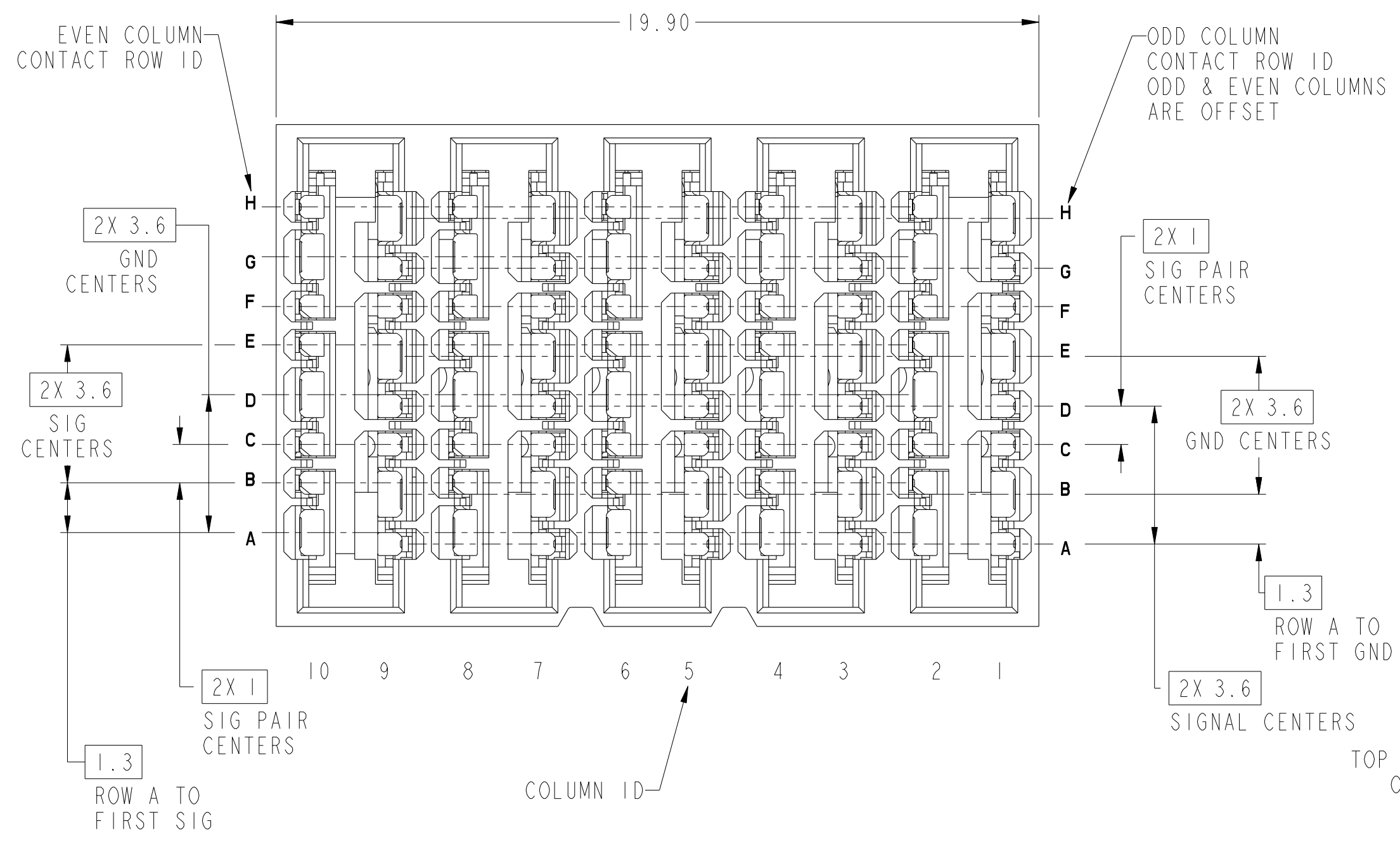


PRODUCT NUMBER
SEE TABLE



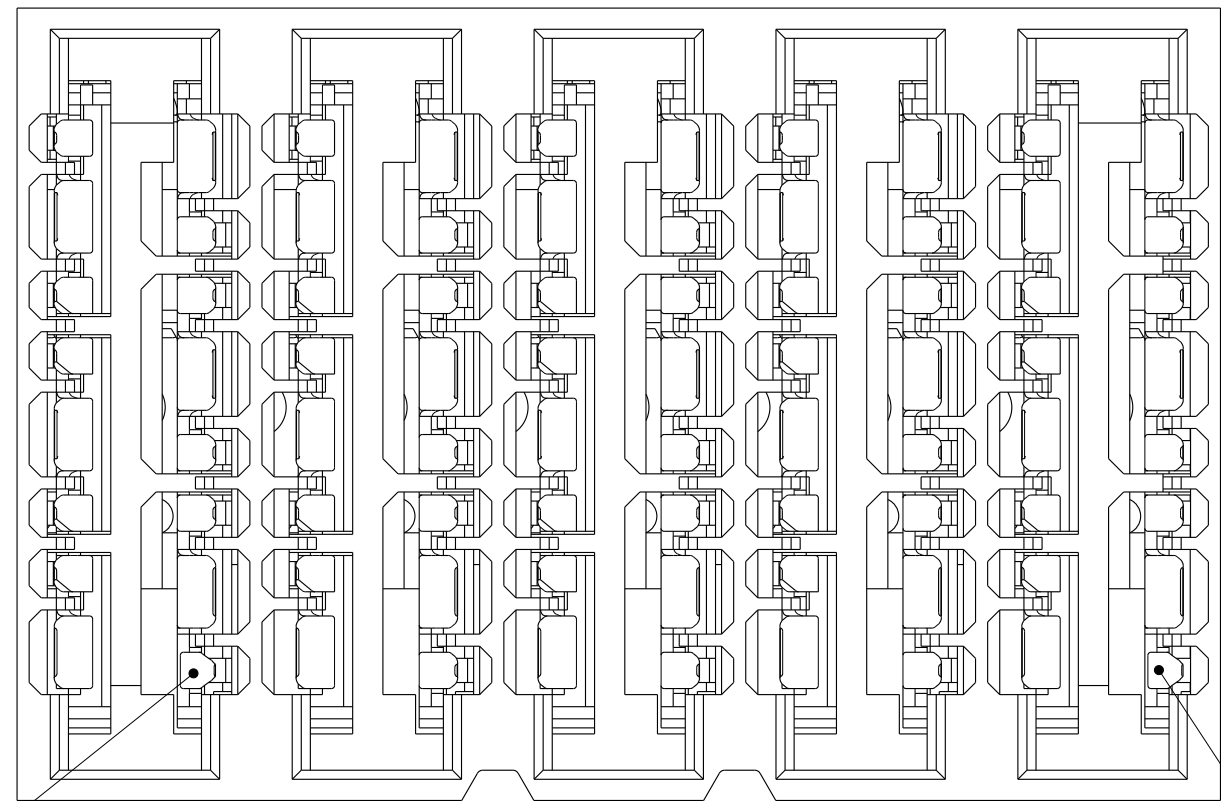
**10124413-101LF
STANDARD MATE RECEPTACLE**

Copyright FCI.

| | | | | | | | | | | |
|---------------------------------------|-------------|---------|---------|------------|----------------|---------------------------------------|-----------|------------------------|---------------|-----|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 8:1 |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | rel level | In Work | rev |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | | | | |
| | | appr | | | | | | | | |
| surface | ✓ | linear | 0.X | ±.3 | product family | ExaMAX | rel level | In Work | rev | 3 |
| | | | 0.XX | ±.10 | title | ExaMAX R.A. RECEPTACLE | | rel level | In Work | 3 |
| | | | 0.XXX | ±.050 | title | ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | | rel level | In Work | 3 |
| | | angular | 0° | ±° | www.fci.com | cat. no. | SEE TABLE | Product - Customer Drw | sheet 1 of 10 | |

1 2 3 4 5 6 7 8

A
B
C
D
E
F



ADVANCED MATE POSITION A9
SEE NOTE 13

ADVANCED MATE POSITION A1
SEE NOTE 13

10124413-201LF
ADVANCED MATE RECEPTACLE
ADVANCED MATE POSITIONS ARE POSITIONS A1 AND A9 ONLY
FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1



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| | | | | | | | | | | | | | | |
|---------------------------------------|-------------|---------|---------|------------|------------|--|--------------------|----------|-------------|--------------------|------------------------|---------------|--|--|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 8:1 | | | | |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | rel level | In Work | | | | | | |
| surface | | linear | 0.X | ±.3 | | ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | dwg no 10124413 | rev 3 | | | | | | |
| | | | 0.XX | ±.10 | | | | | www.fci.com | cat. no. SEE TABLE | Product - Customer Drw | sheet 2 of 10 | | |
| | | angular | 0° | ±° | | | | | | | | | | |

1 2 3 4 5 6 7 8

A

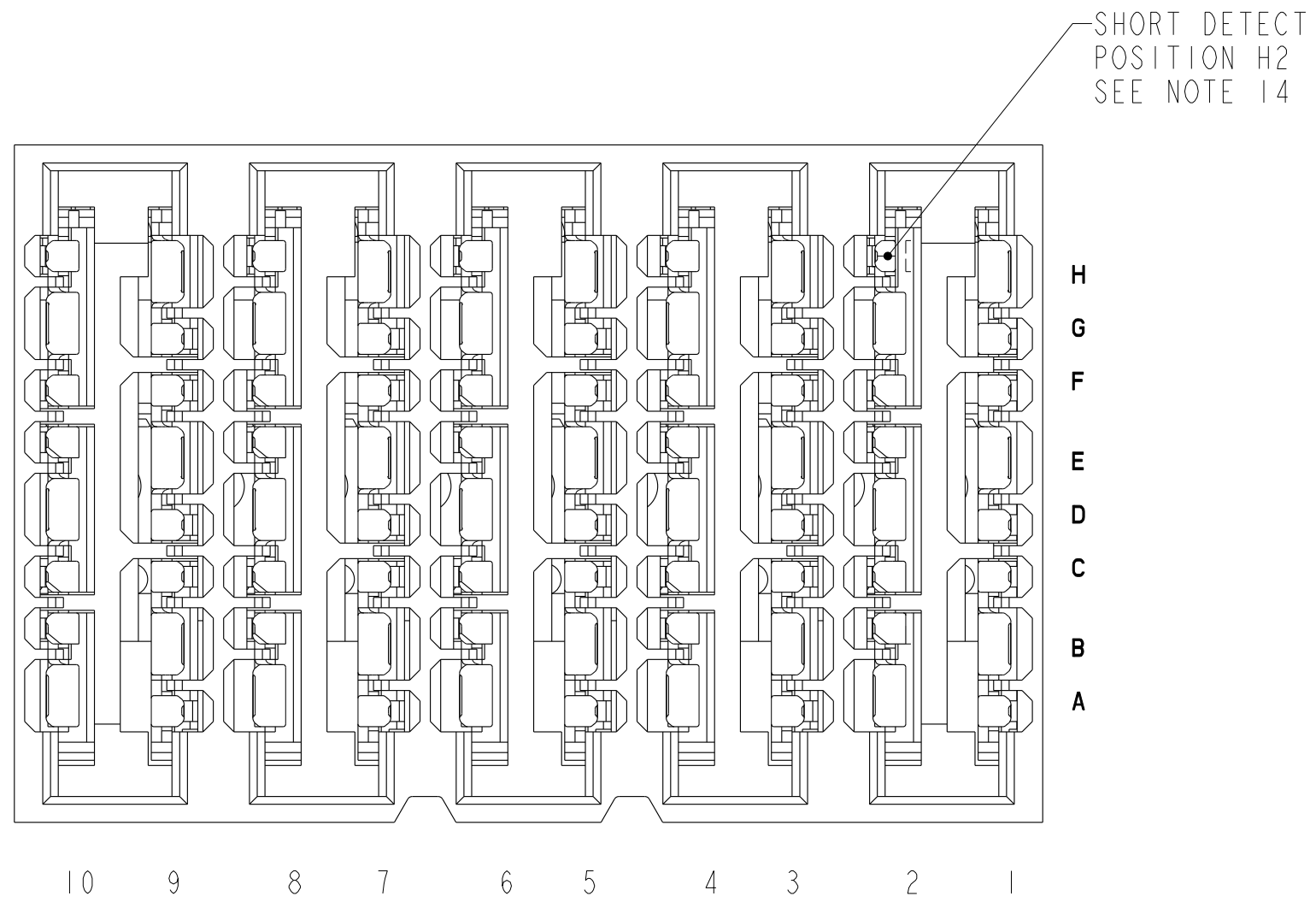
B

C

D

E

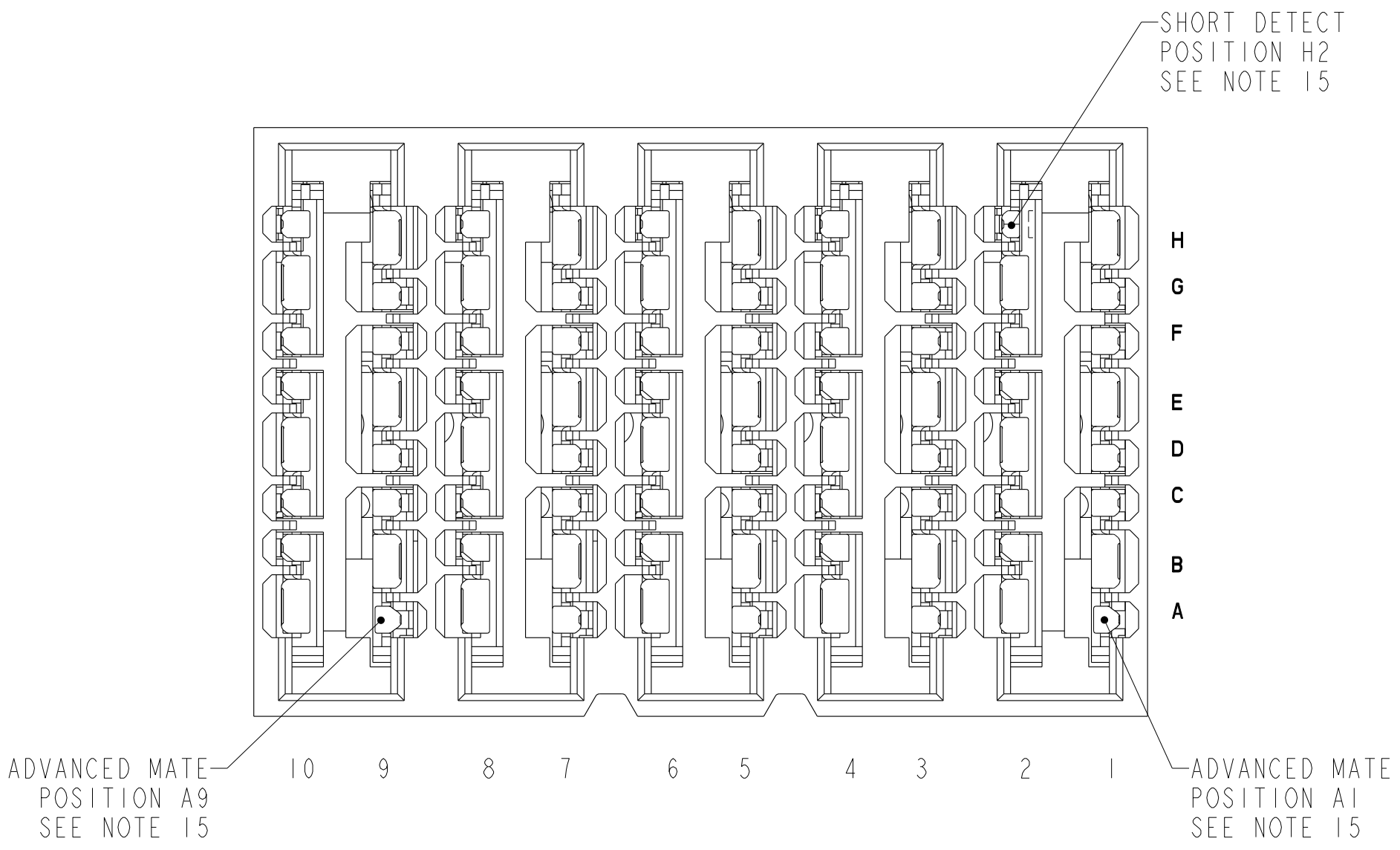
F



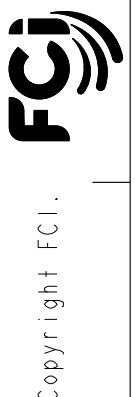
10124413-301LF
SHORT DETECT RECEPTACLE
SHORT DETECT POSITION IS H2
FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1

Copyright FCI.
FCI

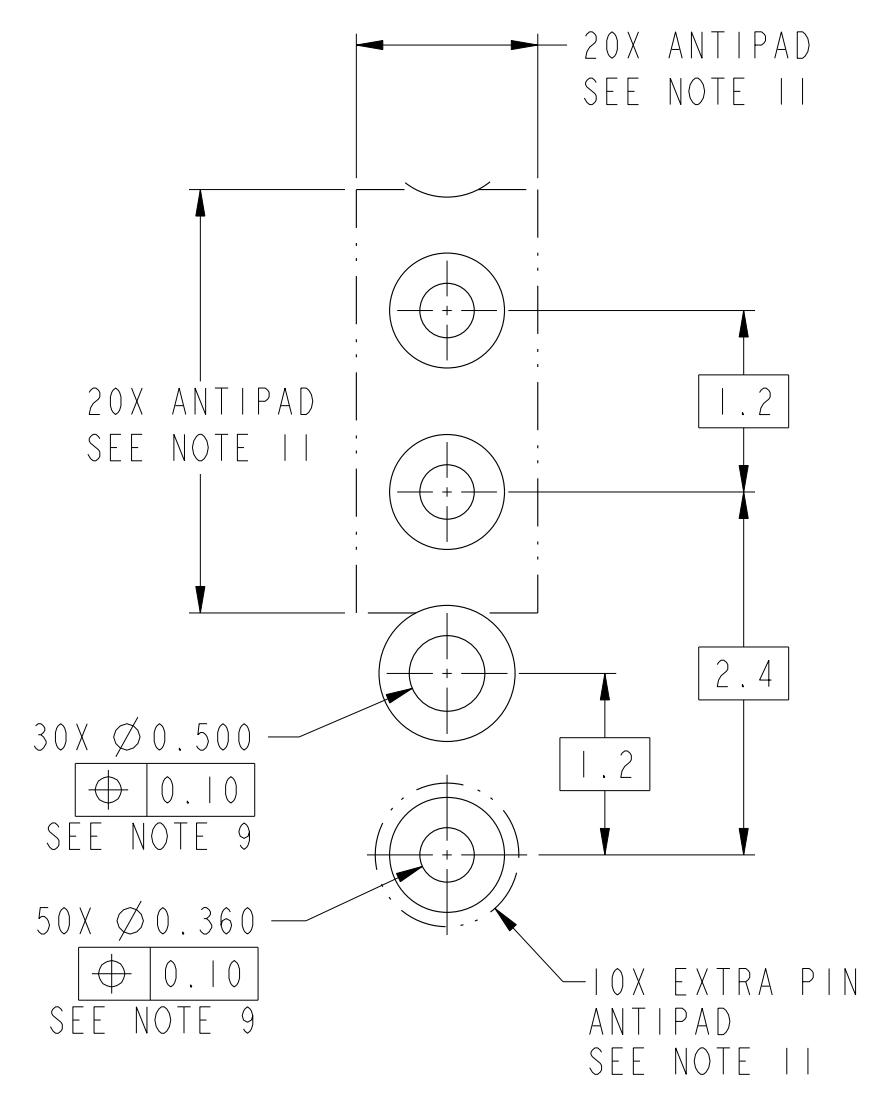
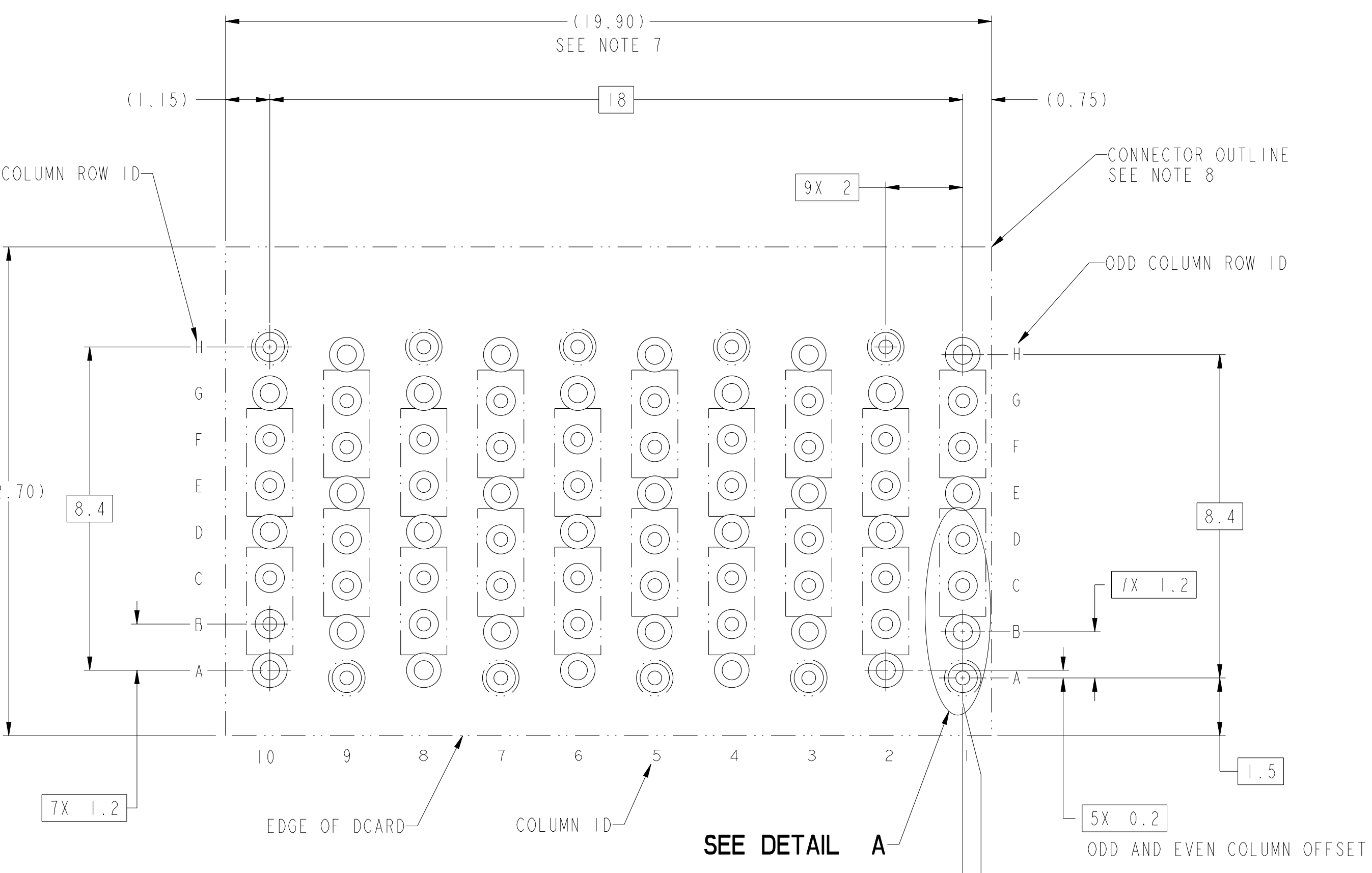
| | | | | | | | | | | | | | | |
|---------------------------------------|-------------|---------|---------|------------|------------|--|--------------------|----------|-------------|----------|-----------|------------------------|---------------|--|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 10:1 | | | | |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | In Work | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | rel level | In Work | | | | | | |
| surface | | linear | 0.X | ±.3 | | title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | dwg no 10124413 | rev 3 | | | | | | |
| | | | 0.XX | ±.10 | | | | | www.fci.com | cat. no. | SEE TABLE | Product - Customer Drw | sheet 3 of 10 | |
| | | angular | 0° | ±° | | | | | | | | | | |



10124413-401LF
ADVANCED MATE/SHORT DETECT RECEPTACLE
ADVANCED MATE POSITIONS ARE A1 AND A9 ONLY
SHORT DETECT POSITION IS H2
FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1



| | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|-------------|---------|------------|------------|--|---------------|----------|-------|-----|-------|-------|---------|----|----|----------------|--------|--|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 8:1 | | | | | | | | |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | | | | | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | rel level | In Work | | | | | | | | | | |
| surface | <table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table> | linear | 0.X | ±.3 | | | | 0.XX | ±.10 | | 0.XXX | ±.050 | angular | 0° | ±° | product family | ExaMAX | |
| linear | 0.X | ±.3 | | | | | | | | | | | | | | | | |
| | 0.XX | ±.10 | | | | | | | | | | | | | | | | |
| | 0.XXX | ±.050 | | | | | | | | | | | | | | | | |
| angular | 0° | ±° | | | | | | | | | | | | | | | | |
| | | appr | | | title | ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | dwg no | 10124413 | rev | 3 | | | | | | | | |
| | | www.fci.com | | cat. no. | SEE TABLE | Product - Customer Drw | sheet 4 of 10 | | | | | | | | | | | |

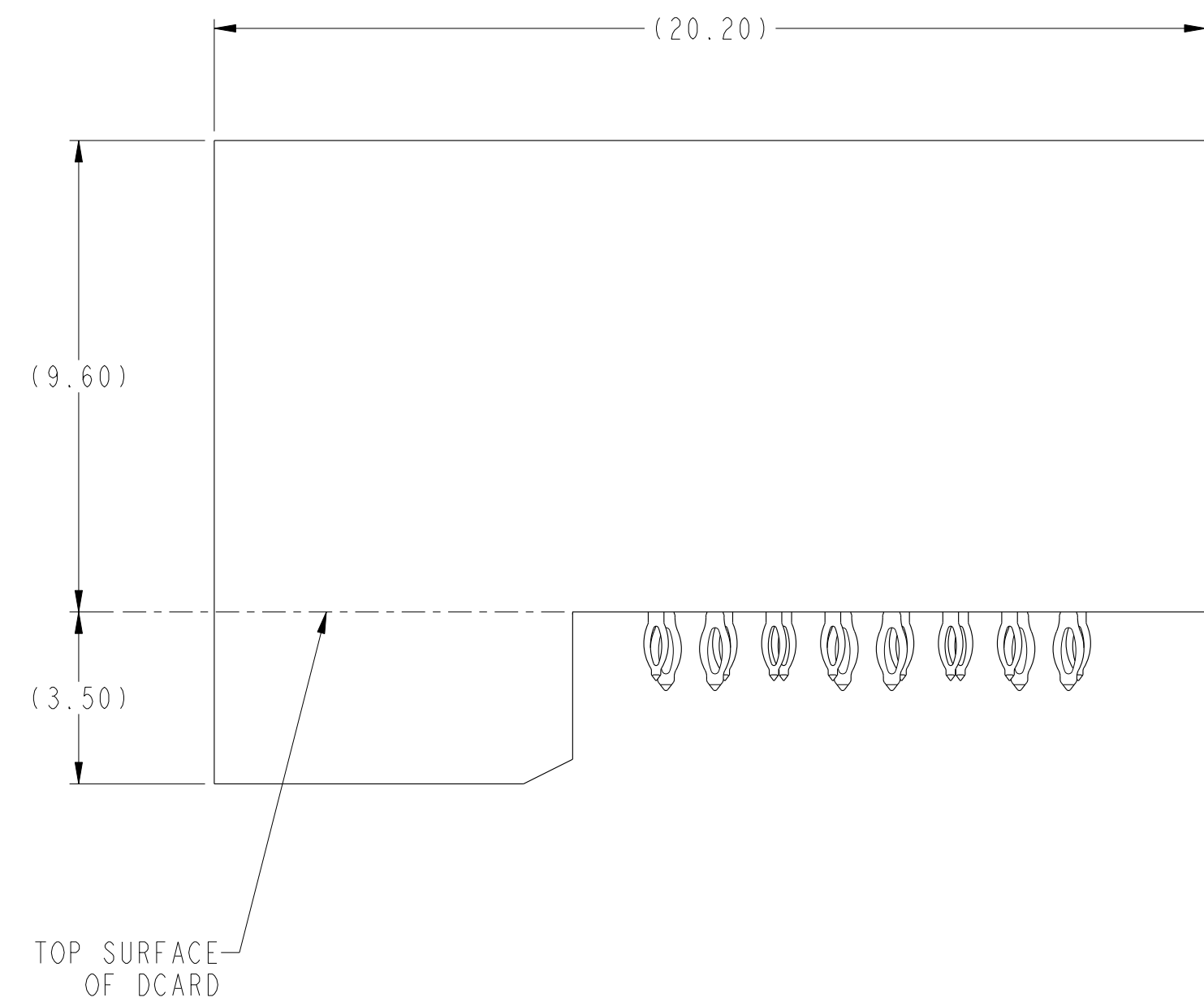
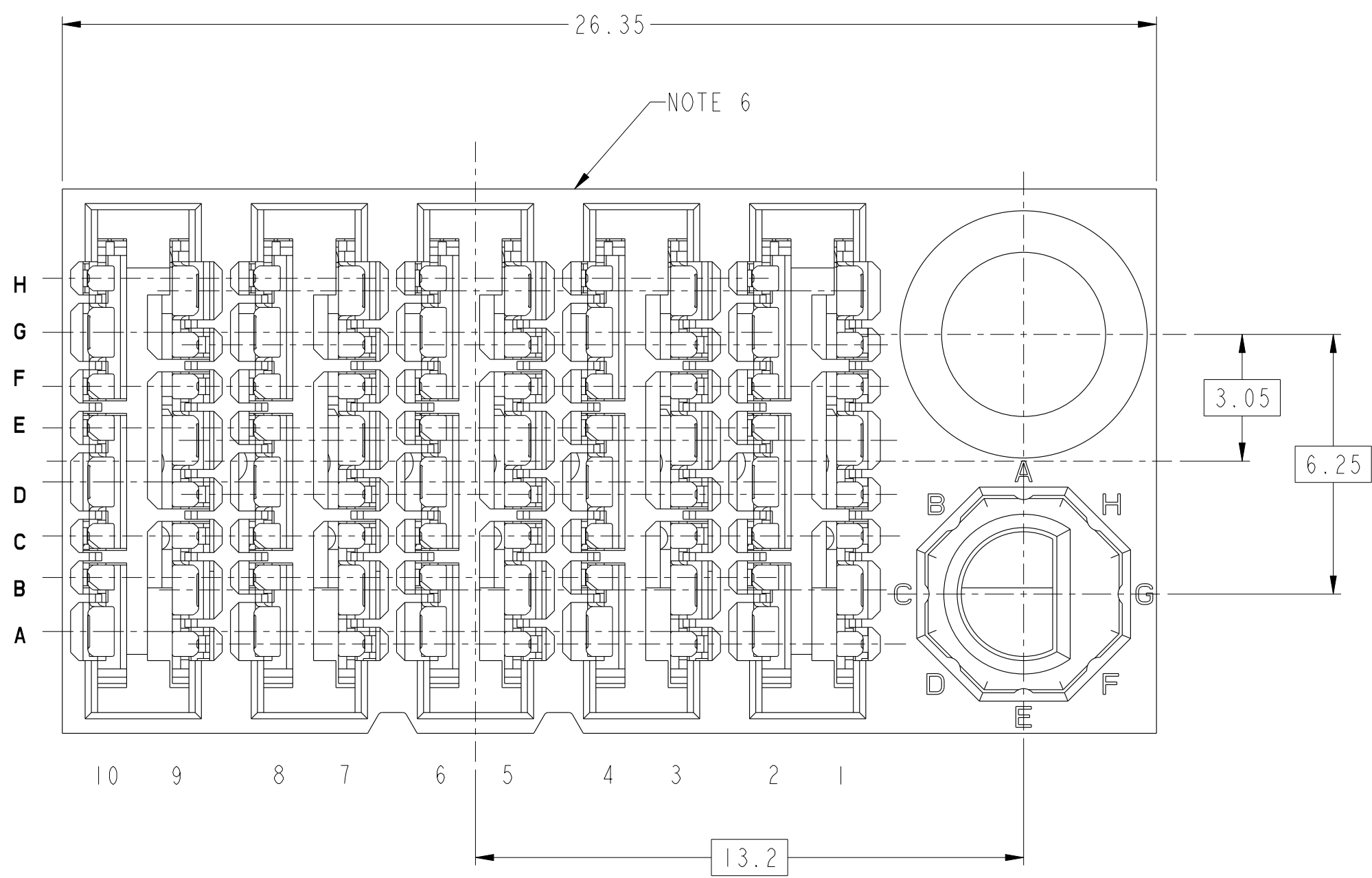


**10124413-X01LF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 7, 8, 9, & 11
SCALE 10:1**

**DETAIL A
SCALE 20:1**

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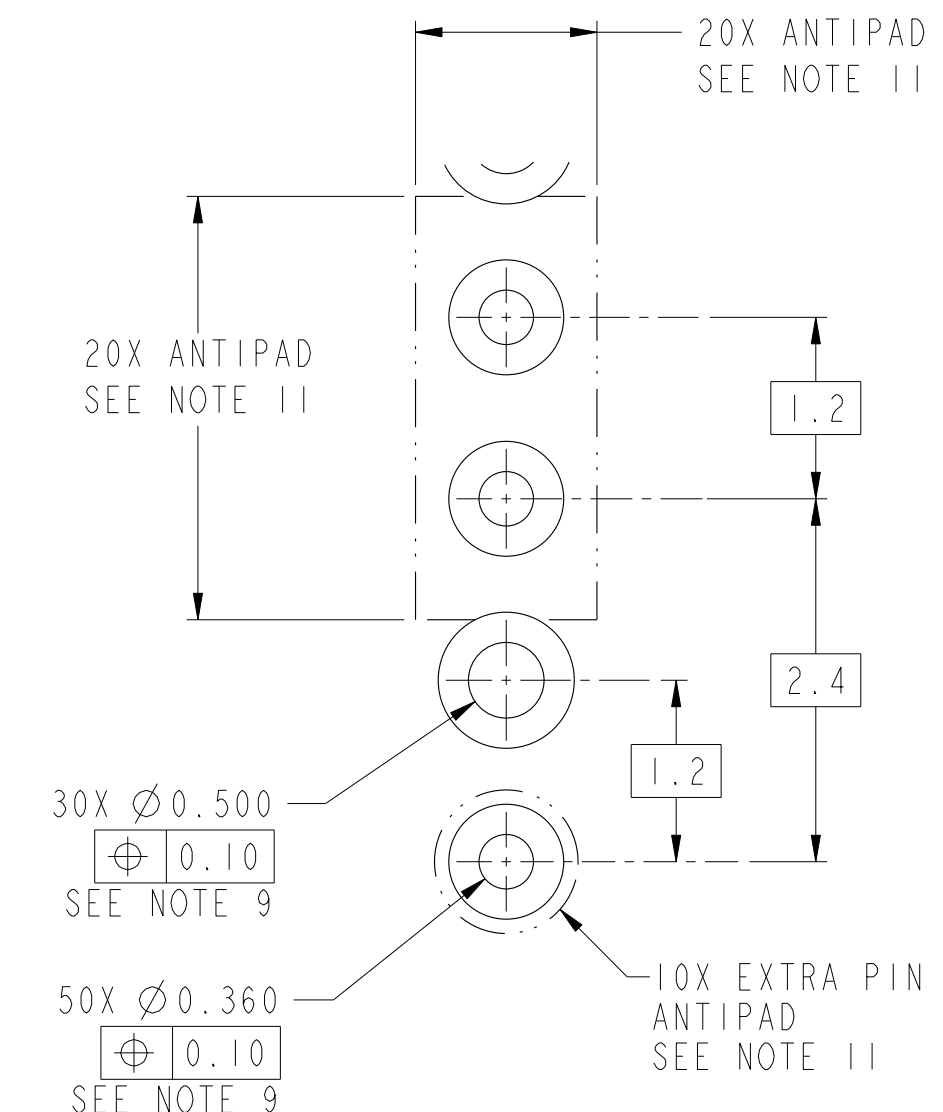
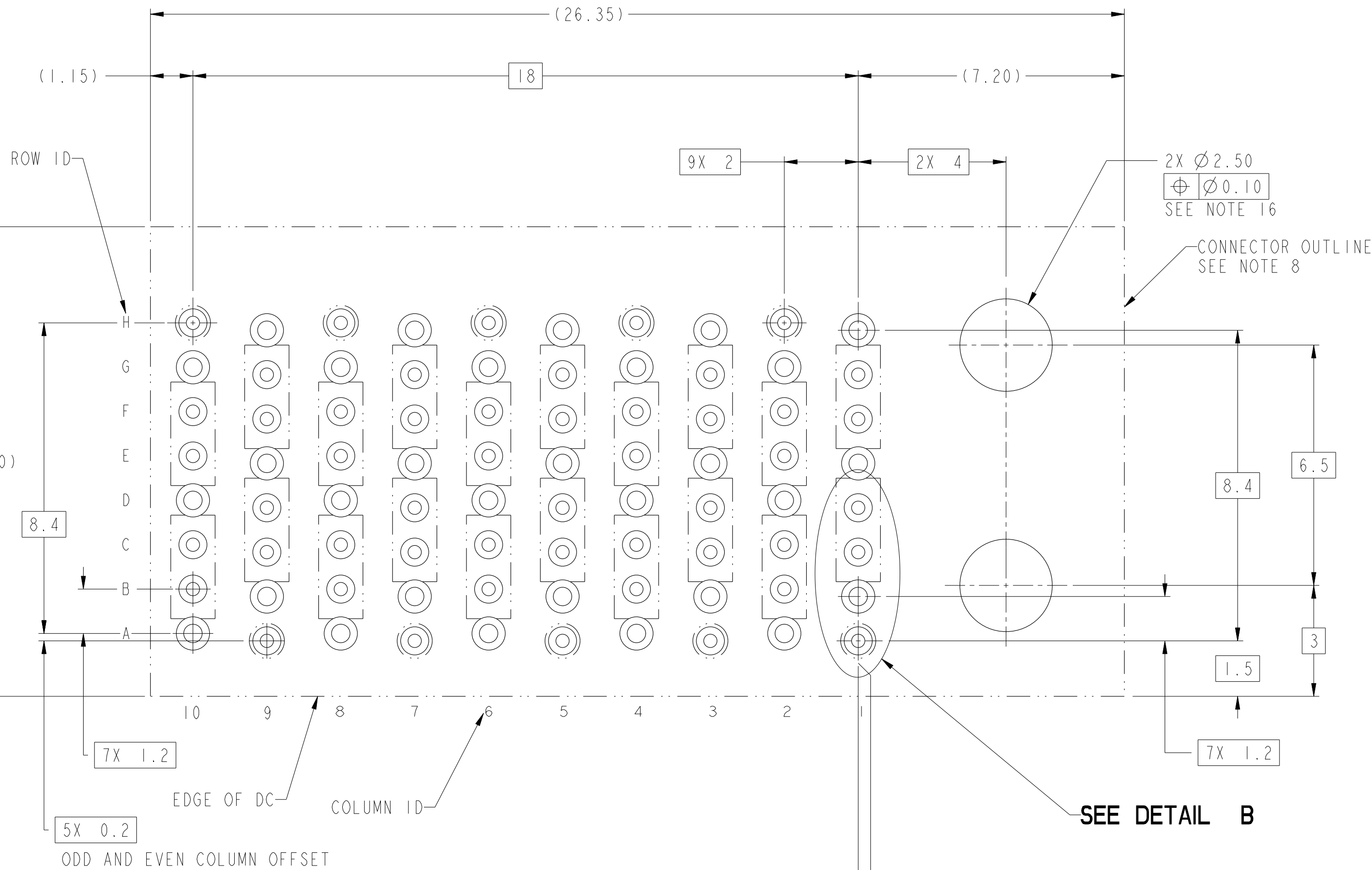
| | | | | | | | | | | |
|---------------------------------------|-------------|-------|---------|------------|----------------|--------|---------------------------------------|-----------|---|---------------|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 10:1 |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | MM | ecn no | rel level | In Work | rev |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | | | | |
| surface | ✓ | appr | | | product family | ExaMAX | rel level | In Work | cat. no. | SEE TABLE |
| | linear | 0.X | ±.3 | | title | | ExaMAX R.A. RECEPTACLE | | www.fci.com cat. no. SEE TABLE Product - Customer Drw | sheet 5 of 10 |
| | | 0.XX | ±.10 | | title | | ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | | | |
| | | 0.XXX | ±.050 | | title | | 10124413 | | | |
| | angular | 0° | ±° | title | | 3 | | | | |



10124413-X1ALF THRU 10124413-X1JLF
 RIGHT GUIDANCE
 FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1
 SCALE 8:1

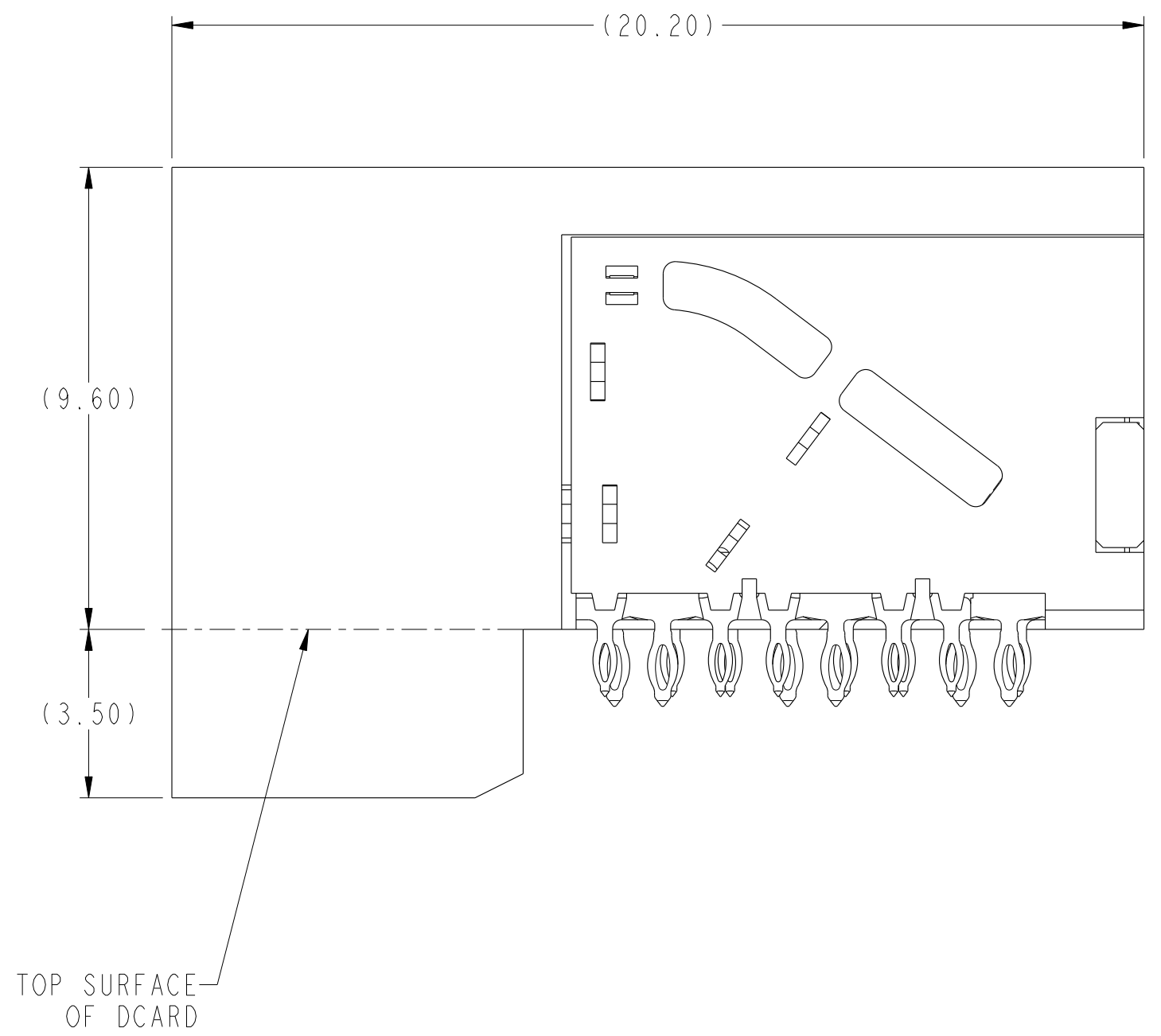
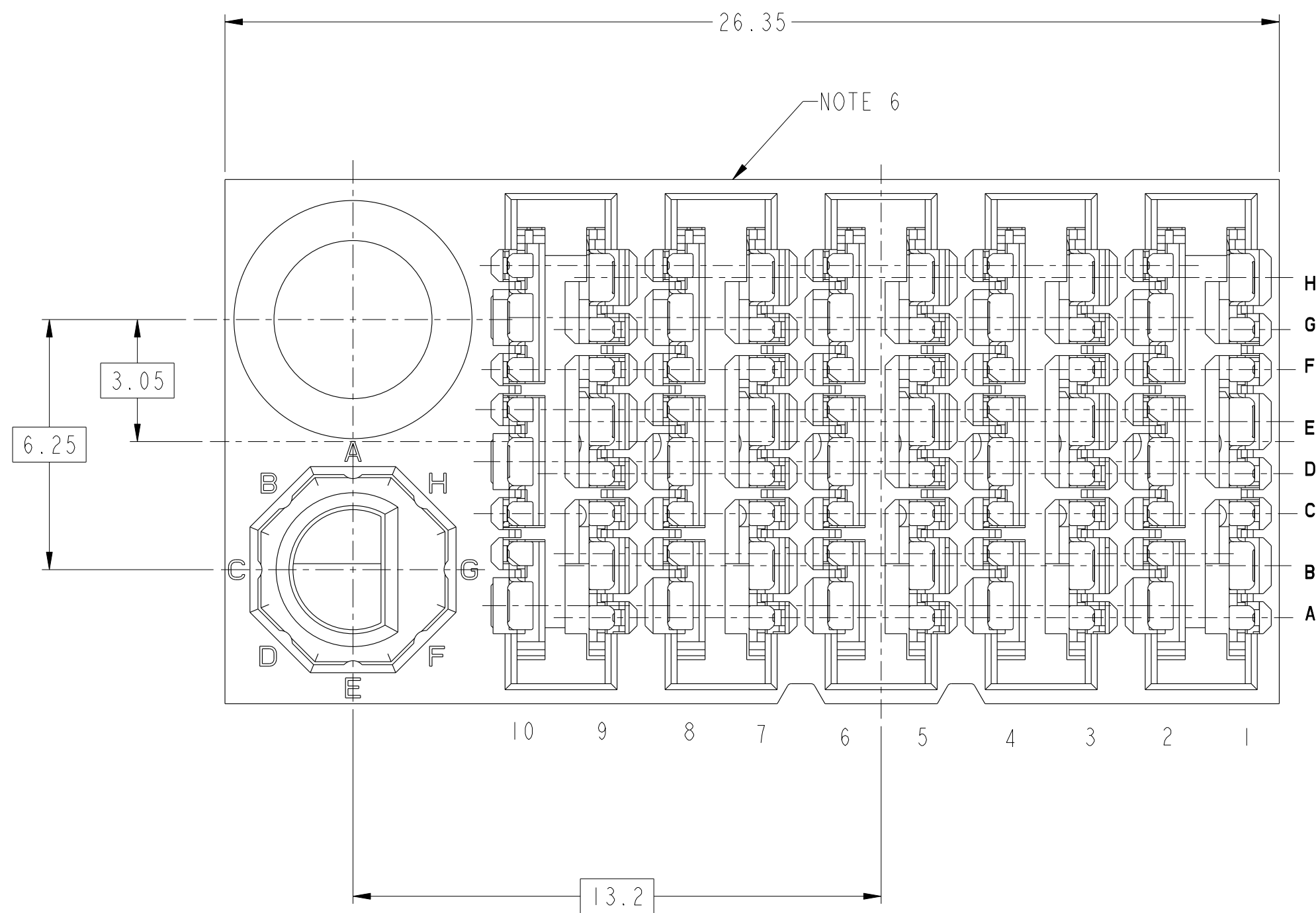
Copyright FCI
 FCI

| | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|-------------|----------|------------|------------------------|---------------|--------|-----------|---------|-------|-------|--|---------|----|----|--|--|--------------------|----------|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 8:1 | | | | | | | | | |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | rel level | In Work | rev | | | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | | | | | | | | | | | | | |
| surface | <table border="1"> <tr> <td rowspan="3"> </td> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td></td> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table> | | linear | 0.X | ±.3 | | 0.XX | ±.10 | | 0.XXX | ±.050 | | angular | 0° | ±° | | title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | dwg no 10124413 | rev 3 |
| | linear | | 0.X | ±.3 | | | | | | | | | | | | | | | |
| | | | 0.XX | ±.10 | | | | | | | | | | | | | | | |
| | | 0.XXX | ±.050 | | | | | | | | | | | | | | | | |
| | angular | 0° | ±° | | | | | | | | | | | | | | | | |
| | | www.fci.com | cat. no. | SEE TABLE | Product - Customer Drw | sheet 6 of 10 | | | | | | | | | | | | | |



10124413-X1ALF THRU -X1JLF
 RECOMMENDED PCB LAYOUT
 COMPONENT SIDE
 NOTES 8, 9, 11 & 16
 SCALE 10:1

| | | | | | | | | | | |
|---------------------------------------|-------------------------------------|-------------|---------|--|------------|--|---------------------------|-----------|---------|------|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 10:1 |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | rel level | In Work | rev |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | | | | |
| surface | ✓ | appr | | | | | | | | |
| linear | 0.X ±.3 0.XX ±.10 0.XXX ±.050 | | | ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | | cat. no. SEE TABLE Product - Customer Drw | 10124413 sheet 7 of 10 | 3 | | |
| angular | 0° ±° | www.fci.com | | SEE TABLE | | Product - Customer Drw | sheet 7 of 10 | | | |

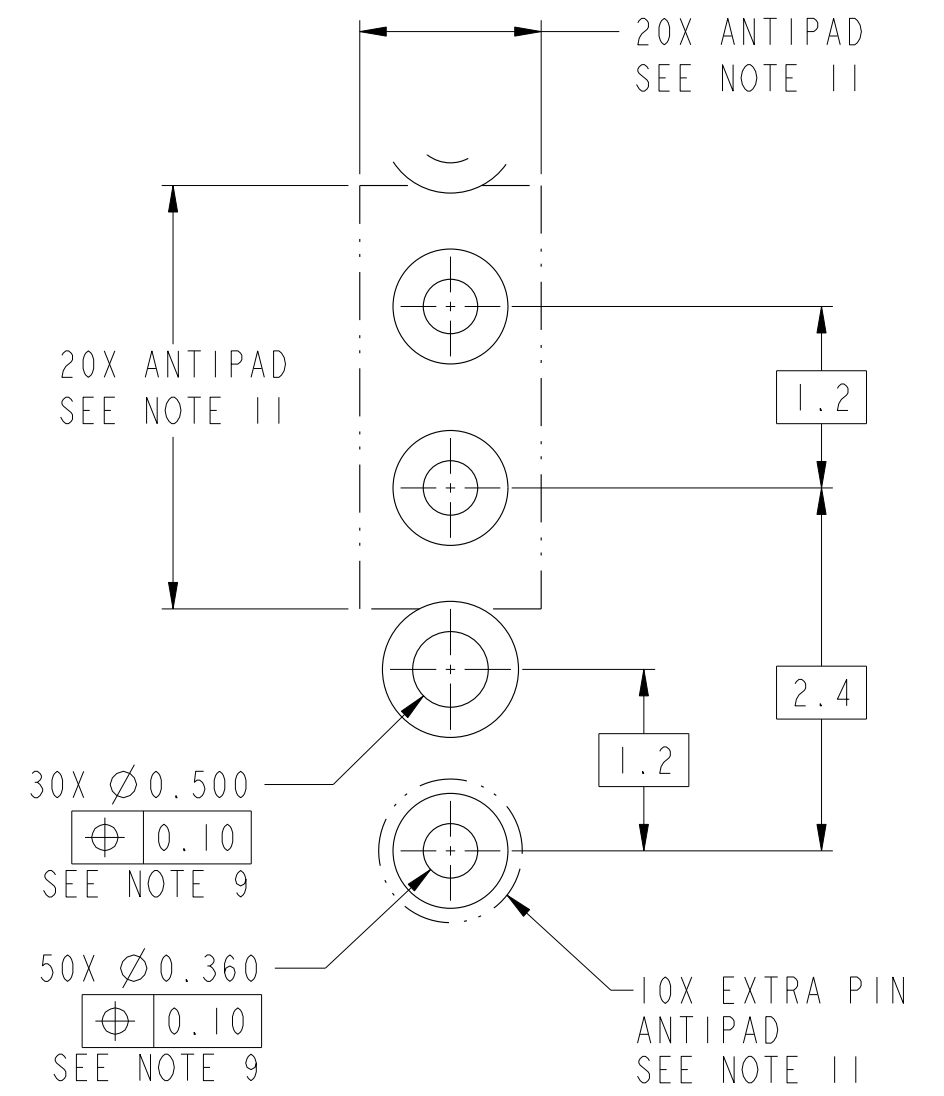
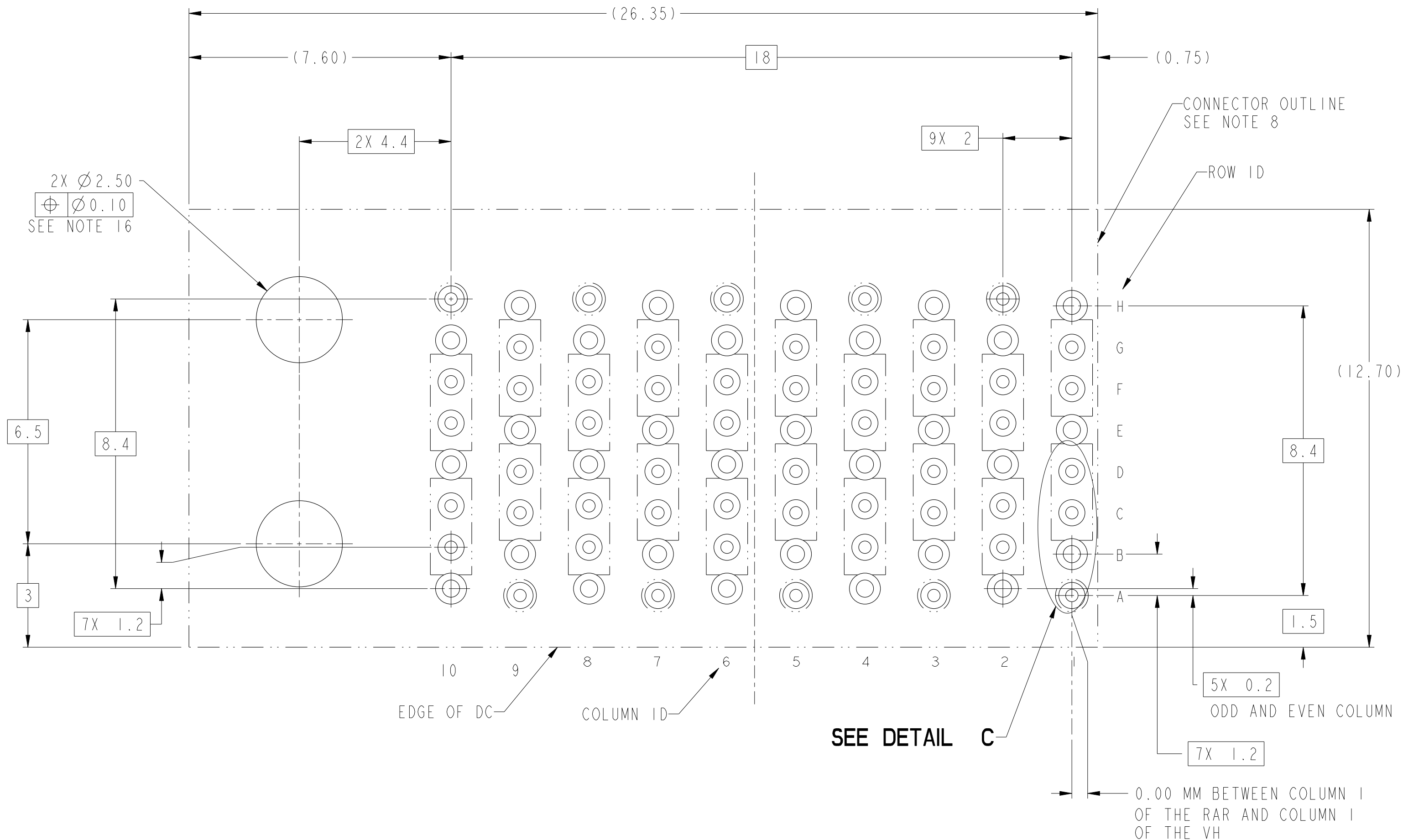


10124413-X2ALF THRU 10124413-X2JLF
 LEFT GUIDANCE
 FOR ALL DIMENSIONS SEE 10124413-101LF ON SHEET 1
 SCALE 8:1



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| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|--------|---------|------------|------------|------|--------|-----------|---------|-------|---------|----|----|--|--|--|---------------|--------------------------|--------------------|---------------|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 2:1 | | | | | | | | | | |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | rel level | In Work | rev | | | | | | | | | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | | | | | | | | | | | | | | |
| surface | <table border="1"> <tr> <td>linear</td> <td>0.X</td> <td>±.3</td> </tr> <tr> <td></td> <td>0.XX</td> <td>±.10</td> </tr> <tr> <td></td> <td>0.XXX</td> <td>±.050</td> </tr> <tr> <td>angular</td> <td>0°</td> <td>±°</td> </tr> </table> | linear | 0.X | ±.3 | | 0.XX | ±.10 | | 0.XXX | ±.050 | angular | 0° | ±° | | title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | | cat. no. - | product family ExaMAX | dwg no 10124413 | sheet 8 of 10 |
| linear | 0.X | ±.3 | | | | | | | | | | | | | | | | | | |
| | 0.XX | ±.10 | | | | | | | | | | | | | | | | | | |
| | 0.XXX | ±.050 | | | | | | | | | | | | | | | | | | |
| angular | 0° | ±° | | | | | | | | | | | | | | | | | | |



DETAIL C
SCALE 20:1

**10124413-X2ALF THRU -X2JLF
RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTES 8, 9, 11 & 16
SCALE 10:1**

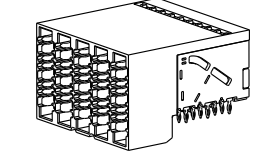
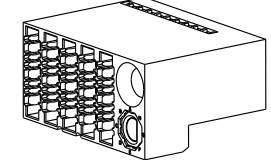
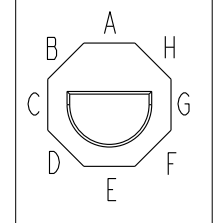
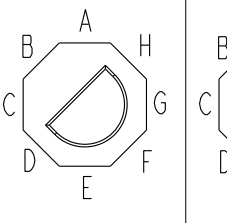
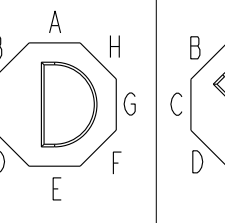
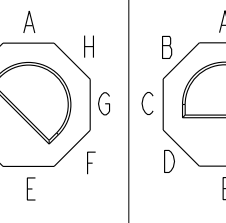
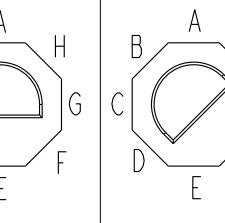
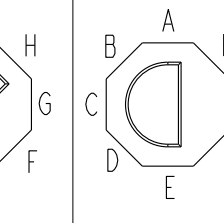
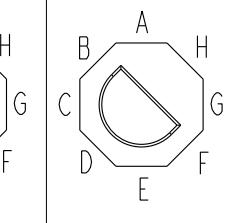
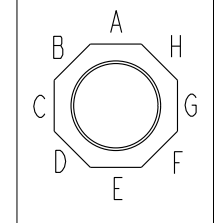
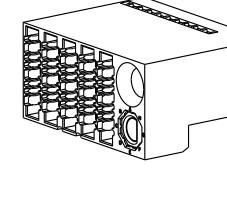
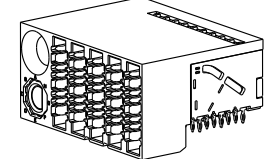
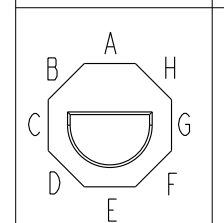
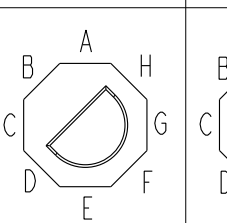
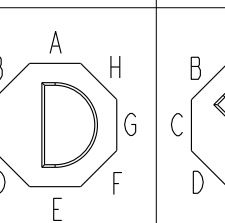
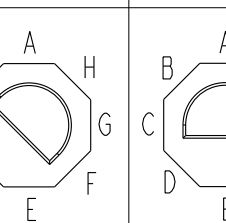
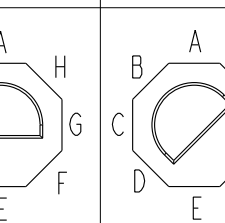
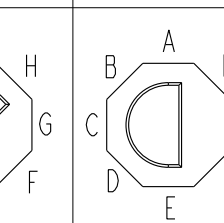
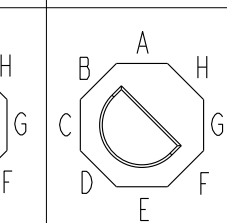
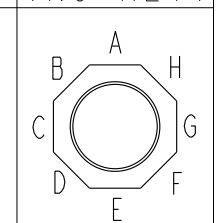
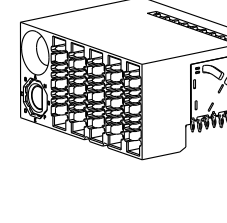


Copyright FCI.

| | | | | | | | | | | |
|---------------------------------------|-------------------------------------|-------------|---------|---|------------|------------------------|---------------|-----------|---------|-----|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 8:1 |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 | | | ecn no | rel level | In Work | rev |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | | | | |
| surface | | appr | | | | | | | | |
| linear | 0.X ±.3 0.XX ±.10 0.XXX ±.050 | | | title ExaMAX R.A. RECEPTACLE ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | | dwg no 10124413 | sheet 9 of 10 | | 3 | |
| angular | 0° ±° | www.fci.com | | cat. no. | SEE TABLE | Product - Customer Drw | | | | |

10124413 - Y Y Y L F

| ASSEMBLY PART NUMBER | DESCRIPTION | STATUS |
|----------------------|------------------------------|------------|
| 10124413-1YYLF | STANDARD MATE | NOT TOOLED |
| 10124413-2YYLF | ADVANCED MATE | |
| 10124413-3YYLF | SHORT DETECT | |
| 10124413-4YYLF | ADVANCED MATE & SHORT DETECT | |

| MODULE DESCRIPTION | DESIGNATION REPRESENTED IN DASH NUMBER | | | | | | | | | | BASE MODULE | STATUS |
|---|---|---|---|---|---|---|---|---|---|--|---|------------|
| WITHOUT END GUIDES MODULE (SEE SHEET 1) | 01 | | | | | | | | | |  | NOT TOOLED |
| RIGHT GUIDANCE MODULE (SEE SHEET 6) | 1A | 1B | 1C | 1D | 1E | 1F | 1G | 1H | 1J (NO KEY) | |  | NOT TOOLED |
| |  |  |  |  |  |  |  |  |  | | | |
| LEFT GUIDANCE MODULE (SEE SHEET 8) | 2A | 2B | 2C | 2D | 2E | 2F | 2G | 2H | 2J (NO KEY) | |  | NOT TOOLED |
| |  |  |  |  |  |  |  |  |  | | | |

NOTES:

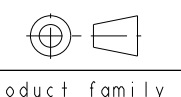
- ① - CONNECTOR MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
IMLA PLASTIC: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
CONTACT: COPPER ALLOY
ORGANIZER: HIGH TEMP THERMOPLASTIC, BLACK, UL94-V0
- 2 - CONTACT PLATING:
SEPARABLE INTERFACE:
PERFORMANCE-BASED PLATING, QUALIFIED TO MEET THE REQUIREMENTS OF FCI PRODUCT SPECIFICATION GS-12-1096 INCLUDING TELCORDIA GR-1217-CORE (NOVEMBER 1995) CENTRAL OFFICE TEST SEQUENCE

PRESS-FIT TAILS: TIN OVER NICKEL (LEAD FREE)
- 3 - PRODUCT SPECIFICATION: GS-12-1096
- 4 - APPLICATION SPECIFICATION GS-20-0361.
- 5 - PACKAGING MEETS GS-14-920 LEAD FREE LABELING SPECIFICATION.
- ⑥ - PRODUCT MARKING, (PROTOTYPE, PART NUMBER & LOT CODE), ON THIS SURFACE.
- ⑦ - THE MINIMUM CENTERLINE SPACING BETWEEN ADJACENT MODULES IS 20.0 FOR -X01.
- ⑧ - CONNECTOR OUTLINE MAY BE SCREEN PRINTED ONTO CUSTOMER PCB TO BE USED AS A GUIDE FOR MANUAL CONNECTOR PLACEMENT.
- ⑨ - REFER TO CUSTOMER DRAWING 10119933 FOR INFORMATION ON PCB HOLE DIAMETERS AND PLATING OPTIONS
- ⑩ - THIS PRODUCT MEETS THE EUROPEAN UNION DIRECTIVES & OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- ⑪ - REFER TO APPLICATION SPECIFICATION FOR TRACE ROUTING EXAMPLES THAT INCLUDE DIMENSIONS FOR ANTIPADS, TRACE WIDTH, TRACE SPACING, ETC.
- 12 - THE HOUSING WILL WITHSTAND EXPOSURE TO 260° C FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- ⑬ - THE ADVANCED MATE RECEPTACLE, 10124413-2XXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER, 10124414-2XXLF, OR ADVANCED MATE RIGHT-ANGLE HEADER, 10128405-2XXLF, WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.

- ⑭ - THE SHORT DETECT RECEPTACLE, 10124413-3XXLF, WHEN MATED WITH A STANDARD MATE VERTICAL HEADER, 10124414-1XXLF, OR THE STANDARD MATE RIGHT-ANGLE HEADER, 10128405-1XXLF, WILL PROVIDE 1 PAIR OF MATING CONTACTS THAT MATE 1.00MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑮ - THE ADVANCE MATE/SHORT DETECT RECEPTACLE, 10124413-4XXLF, WHEN MATED WITH AN ADVANCED MATE VERTICAL HEADER, 10124414-2XXLF, OR THE ADVANCED MATE RIGHT-ANGLE HEADER, 10128405-2XXLF, WILL PROVIDE 2 PAIRS OF MATING CONTACTS THAT MATE 0.75MM BEFORE THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS AND 1 PAIR OF MATING CONTACTS THAT MATE 1.00MM AFTER THE REMAINDER OF THE SIGNAL AND GROUND CONTACTS.
- ⑯ - FOR CONNECTORS WITH EITHER A RIGHT OR LEFT GUIDE MODULE, TWO PHILLIPS PAN HEAD M2 HOLD DOWN SCREWS MAY BE USED TO SECURE THE CONNECTOR TO THE PCB. THE SCREW LENGTH SHALL BE 1.5-2.7MM PLUS THE THICKNESS OF THE BOARD. SCREWS ARE NOT PROVIDED WITH CONNECTOR.



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|---------------------------------------|-------------------------------------|-------------|---------|---------------------------------------|---|------------------------|----------|----------------|---------|-----------|
| spec ref | --- | dr | Jackbin | 2013-09-23 | projection | MM | size | A2 | scale | 1:1 |
| tolerance std | ASME Y14.5M | eng | G. HULL | 2014-06-09 |  | ← MM → | ecn no | rel level | In Work | rev |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | G. HULL | 2014-06-09 | | | | | | |
| surface | ✓ | appr | | | product family | ExaMAX | 10124413 | | | 3 |
| linear | 0.X ±.3 0.XX ±.10 0.XXX ±.050 | FCI | | title | | ExaMAX R.A. RECEPTACLE | | cat. no. | | SEE TABLE |
| angular | 0° ±° | www.fci.com | | ASS'Y, 2 PR, 80 POS, 10 IMLA, 20.0 MM | | Product - Customer Drw | | sheet 10 of 10 | | |